



PRODUCT CHANGE NOTIFICATION

SEMICONDUCTOR PRODUCTS



Bourns Implements New Metal Evaporation Process for Select Semiconductor Products

Riverside, California – June 15, 2020 – As part of our continuous improvement efforts, effective June 26, 2020, Bourns will implement an innovative metal evaporation process to improve our manufacturing capabilities for select PTVS Diodes, TVS Diodes, TISP® Thyristor Surge Protectors, LED Shunt Protectors and TBU® HSPs. This change will result in a more robust product with improved process control.

This process improvement will not impact the form, fit, function, quality or reliability of the products. Qualification test data and evaluation samples are available upon request. A list of affected part numbers is included below and on the following pages. Data sheets can be accessed by clicking on the links.

Implementation dates are as follows:

- Last time to buy existing products: **July 31, 2020**
- Date manufacturing of existing products will cease: **August 21, 2020**
- Date deliveries of modified products will begin: **June 26, 2020**
- First date code using the above changes: **2025**

If you have any questions or need additional information, please feel free to contact [Customer Service/ Inside Sales](#).

CANCELLED 07/16/20

| Affected Part Numbers | | | | | | | |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|-------------------------------|---------|
| PTVS Diodes | | | | | | | |
| MEWRX-PTVS | PTVS10-086C-M | PTVS1-066C-TH | PTVS15-058C-TH | PTVS3-066C-M | PTVS3-430C-TH | PTVS6-076C-TH | R3789-S |
| PTVS10-058C-SH | PTVS10-170C-TH | PTVS1-066C-THL | PTVS15-076C-SH | PTVS3-076C-M | PTVS6-058C-SH | PTVS6-380C-TH | R3790-S |
| PTVS10-066C-M | PTVS10-320C-TH | PTVS1-190C-TH | PTVS15-076C-TH | PTVS3-076C-SH | PTVS6-058C-TH | PTVS6-430C-TH | |
| PTVS10-076C-M | PTVS10-380C-TH | PTVS1-380C-TH | PTVS3-015C-TH | PTVS3-076C-SH-R | PTVS6-066C-M | | R3769-S |
| PTVS10-076C-SH | PTVS10-430C-TH | PTVS1-380C-THL | PTVS3-058C-SH | PTVS3-076C-TH | PTVS6-076C-M | | R3771-S |
| PTVS10-076C-TH | PTVS10-470C-TH | PTVS15-058C-SH | PTVS3-058C-TH | PTVS3-380C-TH | PTVS6-076C-SH | | R3780-S |

Users should verify that the described changes will not impact the performance of the product in their specific applications.

Affected Part Numbers

TVS Diodes

| | | | | | | |
|-----------------------------------|-------------------------------|-----------------------------------|------------------------------------|------------------------------------|---------------------------------|----------------------------------|
| CD143A-SR05 | CDNBS08-T15 | CDNBS16-T36C | CDSOD323-T12 | CDSOD323-T18SC | CDSOT236-T24C | CDSOT23-T12 |
| CD143A-SR12 | CDNBS08-T15C | CDSOT23-T24C-Q | CDSOD323-T12C | CDSOD323-T24 | CDSOT23-SLVU2.8 | CDSOT23-T12C |
| CD143A-SR70 | CDNBS08-T24 | CDSOD323-T03 | CDSOD323-T12C-DSL | CDSOD323-T24C | CDSOT23-SM712 | CDSOT23-T12LC |
| CDNBS08-4T58CC | CDNBS08-T24C | CDSOD323-T03C | CDSOD323-T12C-DSLQ | CDSOD323-T24C-DSL | CDSOT23-SR208 | CDSOT23-T15 |
| CDNBS08-PLC03-6 | CDNBS08-T36 | CDSOD323-T03S | CDSOD323-T12C-SP | CDSOD323-T24C-DSLQ | CDSOT23-SRV05-4 | CDSOT23-T15C |
| CDNBS08-SLVU2.8-8 | CDNBS08-T36C | CDSOD323-T03SC | CDSOD323-T12L | CDSOD323-T24L | CDSOT23-T03 | CDSOT23-T15C-Q |
| CDNBS08-SMDA05-6 | CDNBS08-T58CC | CDSOD323-T03SC-M9 | CDSOD323-T12LC | CDSOD323-T24LC | CDSOT23-T03C | CDSOT23-T15LC |
| CDNBS08-SRDA05-4 | CDNBS16-T03 | CDSOD323-T05 | CDSOD323-T12S | CDSOD323-T24S | CDSOT23-T03LC | CDSOT23-T24 |
| CDNBS08-SRDA05-6 | CDNBS16-T03C | CDSOD323-T05C | CDSOD323-T12SC | CDSOD323-T24SC | CDSOT23-T03LC-Q | CDSOT23-T24C |
| CDNBS08-SRDA12-4 | CDNBS16-T05 | CDSOD323-T05L | CDSOD323-T15 | CDSOD323-T36S | CDSOT23-T03-Q | CDSOT23-T24CAN |
| CDNBS08-SRDA3.3-4 | CDNBS16-T05C | CDSOD323-T05LC | CDSOD323-T15C | CDSOD323-T36SC | CDSOT23-T05 | CDSOT23-T24CAN-Q |
| CDNBS08-SRDA3.3-6 | CDNBS16-T08 | CDSOD323-T05S | CDSOD323-T15L | CDSOT236-T05 | CDSOT23-T05C | CDSOT23-T24C-Q |
| CDNBS08-T03 | CDNBS16-T08C | CDSOD323-T05SC | CDSOD323-T15LC | CDSOD323-T05SC | CDSOT23-T05LC | CDSOT23-T24LC |
| CDNBS08-T03C | CDNBS16-T12 | CDSOD323-T05S-Q | CDSOD323-T15C | CDSOT236-T12 | CDSOT23-T05LC-Q | CDSOT23-T24-Q |
| CDNBS08-T05 | CDNBS16-T12C | CDSOD323-T05SC | CDSOD323-T15SC | CDSOT236-T12C | CDSOT23-T08 | CDSOT23-T36 |
| CDNBS08-T05C | CDNBS16-T15 | CDSOD323-T08C | CDSOD323-T18 | CDSOT236-T12LC | CDSOT23-T08C | CDSOT23-T36C |
| CDNBS08-T08 | CDNBS16-T15C | CDSOD323-T08L | CDSOD323-T18C | CDSOT236-T12LC-SP | CDSOT23-T08C-Q | CDSOT23-T36C-Q |
| CDNBS08-T08C | CDNBS16-T24 | CDSOD323-T08LC | CDSOD323-T18L | CDSOT236-T15 | CDSOT23-T08LC | CDSOT23-T36LC |
| CDNBS08-T12 | CDNBS16-T24C | CDSOD323-T08S | CDSOD323-T18LC | CDSOT236-T15C | CDSOT23-T08LC-Q | CDSOT23-T36LC-Q |
| CDNBS08-T12C | CDNBS16-T36 | CDSOD323-T08SC | CDSOD323-T18S | CDSOT236-T24 | CDSOT23-T08-Q | |

CANCELLED 07/16/20

LSPs

| | | | | | | |
|------------------------------|------------------------------|--|--|--|--|--|
| LSP0600AJR-S | LSP0600BJR-S | | | | | |
|------------------------------|------------------------------|--|--|--|--|--|

TISP® Thyristor Surge Protectors

| | | | | | | |
|--------------------------------|-----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| ACTP250J1BJR-S | R3706BJR-S | TISP4015H1BJR-S | TISP4030L1BJ-S | TISP4070L3AJR-S | TISP4080L3AJ-S | TISP4095J1BJ-S |
| R3280T | R3706BJ-S | TISP4015H1BJ-S | TISP4040H1BJR-S | TISP4070L3AJ-S | TISP4080M3AJR-S | TISP4095J3BJR-S |
| R3293-S | R3716BJR-S | TISP4015L1AJR-S | TISP4040H1BJ-S | TISP4070M3AJR-S | TISP4080M3AJ-S | TISP4095M3AJR-S |
| R3332-S | R3740-S | TISP4015L1AJ-S | TISP4040L1AJR-S | TISP4070M3AJ-S | TISP4080M3BJR-S | TISP4095M3AJ-S |
| R3351-S | R3746-S | TISP4015L1BJR-S | TISP4040L1AJ-S | TISP4070M3BJR-S | TISP4080M3BJ-S | TISP4095M3BJR-S |
| R3442-S | R3759-S | TISP4015L1BJ-S | TISP4040L1BJR-S | TISP4070M3BJ-S | TISP4090L3AJR-S | TISP4095M3BJ-S |
| R3463-S | R3761-S | TISP4025H1BJR-S | TISP4040L1BJ-S | TISP4080H3BJR-S | TISP4090L3AJ-S | TISP4115H3BJR-S |
| R3600DR | R3762-S | TISP4030H1BJR-S | TISP4070H3BJR-S | TISP4080H3BJ-S | TISP4090M3AJR-S | TISP4115H3BJ-S |
| R3606D10-S | R3763-S | TISP4030H1BJ-S | TISP4070H3BJ-S | TISP4080J1BJR-S | TISP4090M3AJ-S | TISP4115J1BJR-S |
| R3606DR10-S | R3768-S | TISP4030L1AJR-S | TISP4070J1BJR-S | TISP4080J1BJ-S | TISP4095H3BJR-S | TISP4115J1BJ-S |
| R3620DR-S | TISP2290L-S | TISP4030L1AJ-S | TISP4070J1BJ-S | TISP4080J3BJR-S | TISP4095H3BJ-S | TISP4115J3BJR-S |
| R3678-S | TISP2290-S | TISP4030L1BJR-S | TISP4070J3BJR-S | TISP4080L3AJR-S | TISP4095J1BJR-S | TISP4115M3AJR-S |

Affected Part Numbers

TISP® Thyristor Surge Protectors (continued)

| | | | | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| TISP4115M3AJ-S | TISP4165L3AJR-S | TISP4219H3LM-S | TISP4260L3AJ-S | TISP4320M3AJ-S | TISP4395J3BJ-S | TISP4C165H3BJR-S |
| TISP4115M3BJR-S | TISP4165L3AJ-S | TISP4219J1BJR-S | TISP4260L3AJ-S | TISP4350H3BJR-S | TISP4395L3AJR-S | TISP4C180H3BJR-S |
| TISP4115M3BJ-S | TISP4165M3AJR-S | TISP4219J1BJ-S | TISP4265H3BJR-S | TISP4350H3BJ-S | TISP4395L3AJ-S | TISP4C180H3BJS |
| TISP4125H3BJR-S | TISP4165M3AJ-S | TISP4219J3BJR-S | TISP4265H3BJ-S | TISP4350H4BJR-S | TISP4395M3AJR-S | TISP4C220H3BJR-S |
| TISP4125H3BJ-S | TISP4165M3BJ | TISP4219M3BJR-S | TISP4265H4BJR-S | TISP4350H4BJ-S | TISP4395M3AJ-S | TISP4C220H3BJS |
| TISP4125J1BJR-S | TISP4165M3BJR-S | TISP4219M3BJ-S | TISP4265H4BJ-S | TISP4350H7BJR-S | TISP4395M3BJR-S | TISP4C250H3BJR-S |
| TISP4125J1BJ-S | TISP4165M3BJ-S | TISP4220H3BJR-S | TISP4265M3AJR-S | TISP4350H7BJ-S | TISP4395M3BJ-S | TISP4C250H3BJS |
| TISP4125J1BJ-S | TISP4180H3BJR-S | TISP4220H3BJ-S | TISP4265M3AJ-S | TISP4350H8BJR-S | TISP4400H3BJR-S | TISP4C290H3BJR-S |
| TISP4125J3BJR-S | TISP4180H3BJ-S | TISP4220L3AJR-S | TISP4265M3BJR-S | TISP4350J1BJR-S | TISP4400H3BJ-S | TISP4C290H3BJS |
| TISP4125L3AJR-S | TISP4180H4BJR-S | TISP4220L3AJ-S | TISP4265M3BJ-S | TISP4350J1BJ-S | TISP4400L3AJR-S | TISP4C350H3BJR-S |
| TISP4125L3AJ-S | TISP4180H4BJ-S | TISP4220M3AJR-S | TISP4290H3BJR-S | TISP4350J3BJR-S | TISP4400L3AJ-S | TISP4C350H3BJ-S |
| TISP4125M3AJ | TISP4180J1BJR-S | TISP4220M3AJ-S | TISP4290H3BJ-S | TISP4350J3BJ-S | TISP4400M3BJR-S | TISP4C390H3BJ |
| TISP4125M3AJR-S | TISP4180J1BJ-S | TISP4220M3BJR-S | TISP4290J1BJR-S | TISP4350L3AJR-S | TISP4400M3BJ-S | TISP4C390H3BJS |
| TISP4125M3AJ-S | TISP4180J3BJR-S | TISP4220M3BJ-S | TISP4290J1BJ-S | TISP4350L3AJ-S | TISP4400M3BJ-S | TISP4G024L1ER-S |
| TISP4125M3BJR-S | TISP4180L3AJR-S | TISP4240H3BJR-S | TISP4290J3BJ | TISP4350M3BJR-S | TISP4400T3BJR-S | TISP4G024L1WR-S |
| TISP4125M3BJ-S | TISP4180L3AJ-S | TISP4240H3BJ-S | TISP4290S3BJ-S | TISP4350M3AJ-S | TISP4500H3BJR-S | TISP4P015L1NR-S |
| TISP4145H3BJR-S | TISP4180M3AJR-S | TISP4240L3AJR-S | TISP4290L3AJ | TISP4350M3BJR-S | TISP4500H3BJ-S | TISP4P020L1NR-S |
| TISP4145H3BJ-S | TISP4180M3AJ-S | TISP4240L3AJ-S | TISP4290L3AJ-S | TISP4350M3BJ-S | TISP4500M3BJR-S | TISP4P025L1NR-S |
| TISP4145H3BJ-S | TISP4180M3BJR-S | TISP4240M3AJR-S | TISP4290M3AJR-S | TISP4350T3BJR-S | TISP4520H3BJR-S | TISP4P035L1NR-S |
| TISP4145J1BJR-S | TISP4180M3BJ-S | TISP4240M3AJ-S | TISP4290M3AJ-S | TISP4350T3BJ-S | TISP4520H3BJ-S | TISP5070H3BJR-S |
| TISP4145J1BJ-S | TISP4200H3BJR-S | TISP4240M3BJR-S | TISP4290M3BJR-S | TISP4360H3BJR-S | TISP4A100H3BJR-S | TISP5070H3BJ-S |
| TISP4145J3BJR-S | TISP4200H3BJ-S | TISP4240M3BJ-S | TISP4290M3BJ-S | TISP4360H3BJ-S | TISP4A100H3BJS | TISP5080H3BJR-S |
| TISP4145L3AJR-S | TISP4200H4BJR-S | TISP4250H3BJR-S | TISP4290T3BJR-S | TISP4360H4BJR-S | TISP4A250H3BJR-S | TISP5080H3BJ-S |
| TISP4145L3AJ-S | TISP4200H4BJ-S | TISP4250H3BJ-S | TISP4290T3BJ-S | TISP4360H4BJ-S | TISP4A265H3BJR-S | TISP5095H3BJR-S |
| TISP4145M3AJR-S | TISP4200J1BJR-S | TISP4250H3BJ-S | TISP4300H3BJR-S | TISP4360L3AJR-S | TISP4A265H3BJS | TISP5095H3BJ-S |
| TISP4145M3AJ-S | TISP4200J1BJ-S | TISP4250J1BJR-S | TISP4300H3BJ-S | TISP4360L3AJ-S | TISP4A270H3BJR-S | TISP5110H3BJR-S |
| TISP4145M3BJR-S | TISP4200J1BJ-S | TISP4250J1BJ-S | TISP4300H4BJR-S | TISP4360M3AJR-S | TISP4A270H3BJS | TISP5110H3BJ-S |
| TISP4145M3BJ-S | TISP4200J3BJR-S | TISP4250J3BJR-S | TISP4300H4BJ-S | TISP4360M3AJ-S | TISP4C115H3BJR-S | TISP5115H3BJR-S |
| TISP4165H3BJR-S | TISP4200M3AJR-S | TISP4250J3BJ-S | TISP4300M3AJR-S | TISP4360M3BJR-S | TISP4C115H3BJ-S | TISP5115H3BJ-S |
| TISP4165H3BJ-S | TISP4200M3AJ-S | TISP4250M3AJR-S | TISP4300M3AJ-S | TISP4360M3BJ-S | TISP4C125H3BJR-S | TISP5150H3BJR-S |
| TISP4165H4BJR-S | TISP4200M3BJR-S | TISP4250M3AJ-S | TISP4300M3BJR-S | TISP4395H3BJR-S | TISP4C125H3BJS | TISP5150H3BJ-S |
| TISP4165H4BJ-S | TISP4200M3BJ-S | TISP4250M3BJR-S | TISP4300M3BJ-S | TISP4395H3BJ-S | TISP4C145H3BJR-S | TISP5190H3BJR-S |
| TISP4165J1BJR-S | TISP4219H3BJR-S | TISP4250M3BJ-S | TISP4320L3AJR-S | TISP4395J1BJR-S | TISP4C145H3BJS | TISP61089ADR-S |
| TISP4165J1BJ-S | TISP4219H3BJ-S | TISP4250M3BJ-S | TISP4320L3AJ-S | TISP4395J1BJ-S | TISP4C150H3BJR-S | TISP61089AD-S |
| TISP4165J3BJR-S | TISP4219H3LMR-S | TISP4260L3AJR-S | TISP4320M3AJR-S | TISP4395J3BJR-S | TISP4C150H3BJS | TISP61089AP |

CANCELLED 07/16/20

| Affected Part Numbers | | | | | | |
|--|----------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------|
| TISP® Thyristor Surge Protectors (continued) | | | | | | |
| TISP61089ASDR-S | TISP61089D-S | TISP61089SD-S | TISP6NTP2CDR-S | TISP8200HDMR-S | TISP9110MDMR-S | TISPPBL2SDR |
| TISP61089ASD-S | TISP61089HDMR-S | TISP61512P | TISP6NTP2CD-S | TISP8200MDR-S | TISP9110MSDMR-S | TISPPBL2SE |
| TISP61089BDR-S | TISP61089HDM-S | TISP61521D | TISP6NTP2C-R6-S | TISP8200MD-S | TISPA79R241DR-S | TISPPBL3D |
| TISP61089BDR-T | TISP61089LDR-S | TISP61521DR | TISP7015DR-S | TISP8201HDMR-S | TISPA79R241D-S | TISPPBL3DR-S |
| TISP61089BD-S | TISP61089MDR-S | TISP61521DR-S | TISP7015D-S | TISP8201MDR-S | TISPPBL1D | TISPPBL3SE |
| TISP61089BGDR-S | TISP61089P | TISP61521D-S | TISP7015L1DR-S | TISP8201MD-S | TISPPBL1DR | TISPPBL4DR |
| TISP61089BSDR-S | TISP61089QADR-S | TISP6L7591DR-S | TISP7038L1DR-S | TISP8210MDR-S | TISPPBL1P | |
| TISP61089BSD-S | TISP61089QBDR-S | TISP6L7591D-S | TISP7290 | TISP8211MDR-S | TISPPBL1SE | |
| TISP61089DR | TISP61089QDR-S | TISP6NTP2BDR-S | TISP7290-3827 | TISP9110LDMR-S | TISPPBL2DR | |
| TISP61089DR-S | TISP61089SDR-S | TISP6NTP2BD-S | TISP7290L | TISP9110LSDMR-S | TISPPBL2P | |
| TBU® HSPs | | | | | | |
| TBU-RS055-300-WH | TBU-RS085-300-WH | | | | | |

CANCELLED 07/16/20