



Part: S2025R  
Series: Teccor® SCR Devices  
Technology:SCRs

PARAMETERS		
Package Type	Pkg Type	Radial Leaded
Mount Method	Mount	Through hole
Critical Rate-of-rise of On-state Current	$di/dt$ (A/ $\hat{A}\mu$ s)	150
Critical rate-of-rise of applied forward voltage	$dv/dt @ 100\hat{A}^{\circ}C$ V/ $\hat{A}\mu$ s	450
Peak off-state forward and reverse current	$I_{DRM} \& I_{RRM} @ 100\hat{A}^{\circ}C$ (mA)	1.0000
Peak off-state forward and reverse current	$I_{DRM} \& I_{RRM} @ 125\hat{A}^{\circ}C$ (mA)	2.0000
Peak off-state forward and reverse current	$I_{DRM} \& I_{RRM} @ 25\hat{A}^{\circ}C$ (mA)	0.0100
Peak Gate Current	$I_{GM}$ (A)	3
Average on-state current	$I_{T(AV)}$ MAX (A)	16.0000
RMS Surge (Non-repetitive) On-state Fusing Current	$I^2 t$ ( $A^2$ Sec)	510
Average Gate Power Dissipation	$P_{G(AV)}$ (W)	0.8000
Peak Gate Power Dissipation	$P_{GM}$ (W)	35
Package Size/Form Factor	size	TO-220
Gate-controlled Turn-on time	$T_{GT}$ ( $\hat{A}\mu$ s)	2
Circuit commutated turn-off time	$T_Q$ ( $\hat{A}\mu$ s)	35
Peak Reverse Gate Voltage	$V_{GRM}$ MIN (V)	0
Gate Trigger Voltage	$V_{GT} @ 110\hat{A}^{\circ}C$ min (V)	0.0000
Gate Trigger Voltage	$V_{GT} @ 125\hat{A}^{\circ}C$ min (V)	0.2000
Peak on-state Gate Trigger Voltage	$V_{GTM}$ (V)	0.0000
Gate Trigger Voltage	$V_{gt} @ 25\hat{A}^{\circ}C$ max (V)	1.5000
Maximum on-state current	$I_{T(RMS)}$ max (A)	25.0
Repetitive Peak Off-state Forward and Reverse Voltage	$V_{DRM} \& V_{RRM}$ (V)	200
Gate Trigger Current	$I_{GT}$ MAX (mA)	35.00
Gate Trigger Current	$I_{GT}$ MAX ( $\hat{A}\mu$ A)	0
Gate Trigger Current	$I_{GT}$ MIN (mA)	1.00
Gate Trigger Current	$I_{GT}$ MAX ( $\hat{A}\mu$ A)	0
Holding Current	$I_H$ MAX (mA)	50
Surge (Non-repetitive) On-state current	$I_{TSM} @ 60Hz$ (A)	350
Surge (Non-repetitive) On-state current	$I_{TSM} @ 50Hz$ (A)	300
Peak on-state voltage at maximum rated RMS current	$V_{TM}$ MAX (V)	1.6000
Critical rate-of-rise of applied forward voltage	$dv/dt @ 125\hat{A}^{\circ}C$ V/ $\hat{A}\mu$ s	350

