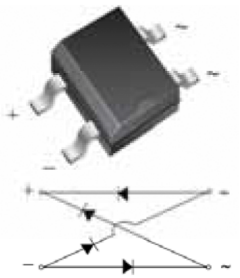
MB22S thru MB210S

Surface Mount Schottky Bridge Rectifier

Reverse Voltage 20 to 100 Volts Forward Current 2.0 Ampere

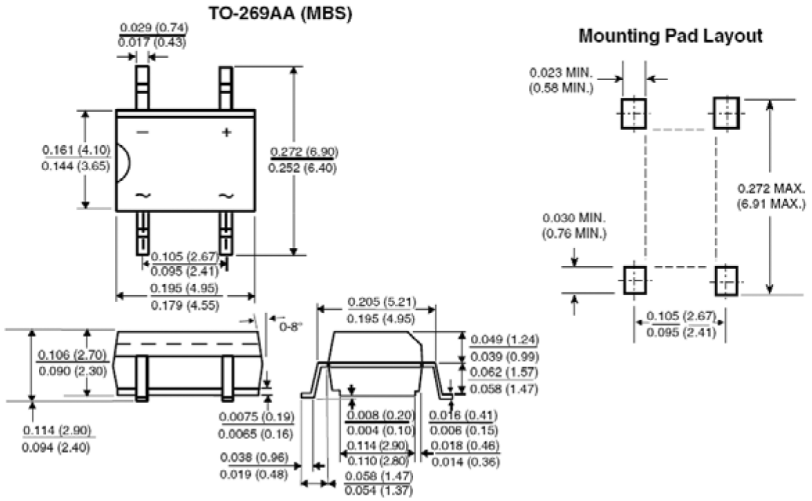
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge overload rating:50A peak
- Saves space on printed circuit boards
- High temperature soldering guaranteed:260℃/10 seconds
- For Halogen Free, add the suffix E to part number, e.g.MB210SE



Mechanical Data

- Case:Molded plastic body over passivated junctions
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Mounting Position:Any
- Weight:0.078 oz.,0.22g



Maximum Ratings & Electrical Characteristics

(T_A=25℃ unless otherwise noted)

Parameter	Symbol	MB22S	MB24S	MB26S	MB28S	MB210S	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	V
Maximum Average forward output current	$I_{F(AV)}$	2.0					A
Peak forward surge current 8.3 MS single HALF sine-wav superimposed on rated load (JEDEC Method)	I_{FSM}	50					A
Maximum instantaneous forward voltage at 2.0A	VF	0.55		0.70	0.85		V
Maximum DC reverse current at TA=25℃ rated DC blocking voltage per leg TA=100℃	IR	0.5					mA
		20					
Operation junction temperzture range	Tj	-55 to +125					℃
Storage temperature range	T_{STG}	-55 to +150					℃

Ratings and Characteristics Curves

(TA = 25℃ unless otherwise noted)

FIG. 1 - FORWARD CURRENT DERATING CURVE

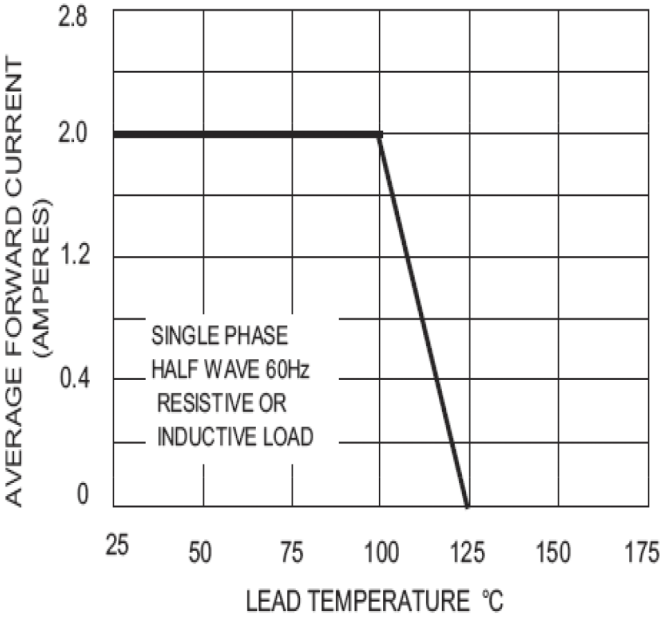


FIG. 2 -MAXIMUM NON-REPETITIVE SURGE CURRENT

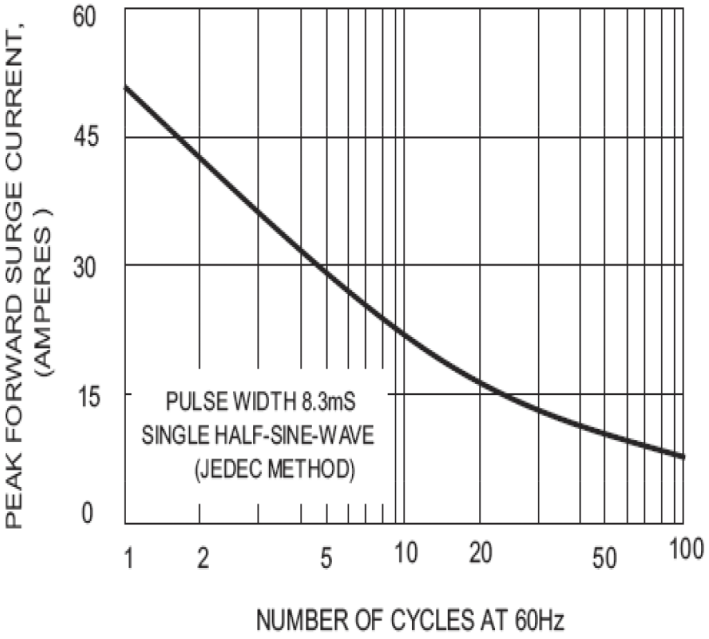


FIG.3-TYPICAL FORWARD CHARACTERISTICS

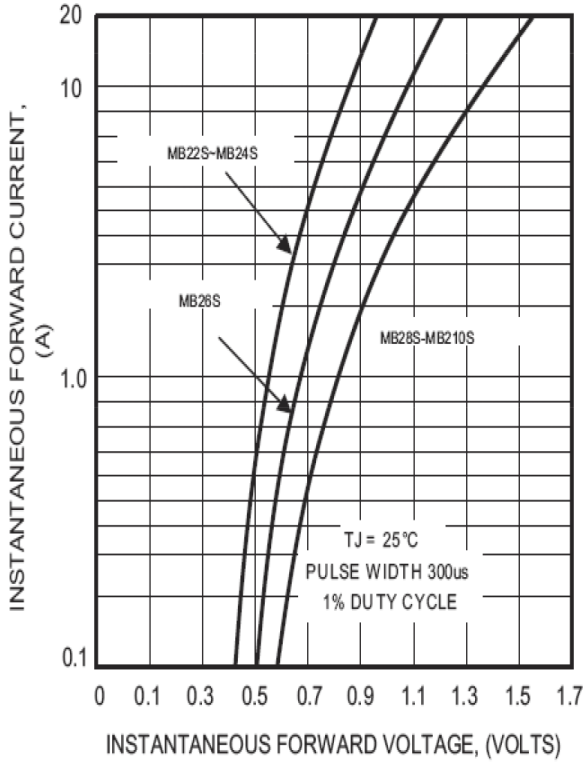


FIG.5-TYPICAL REVERSE CHARACTERISTICS