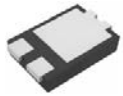


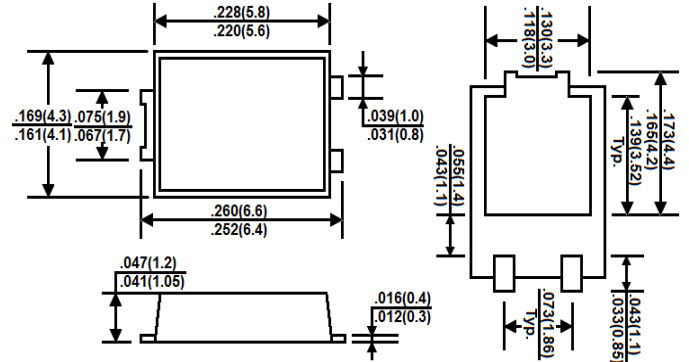
Features

- * Low Forward Voltage Drop
- * Low leakage current
- * Heatsink design
- * High temperature soldering guaranteed: 260°C/10 seconds

TO-277B



RoHS
COMPLIANT



Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

Type Number	Symbol	MBR2080PS	MBR20100PS	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	80	100	V
Maximum RMS Voltage	V _{RMS}	56	70	V
Maximum D.C Blocking Voltage	V _{DC}	80	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	20	20	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	300	300	A
Maximum Instantaneous Forward Voltage IF=20A, TA=25°C	V _F	0.85 0.76		V
Maximum DC Reverse Current At Rated DC Blocking Voltage T _J =25 °C T _J =125	I _R	0.1 20		mA
Typical Thermal Resistance	R _{θJA}	55		°C/W
Operating junction and Storage Temperature Range	T _J /T _{STG}	-55 to +150		°C

Ratings and Characteristic Curves

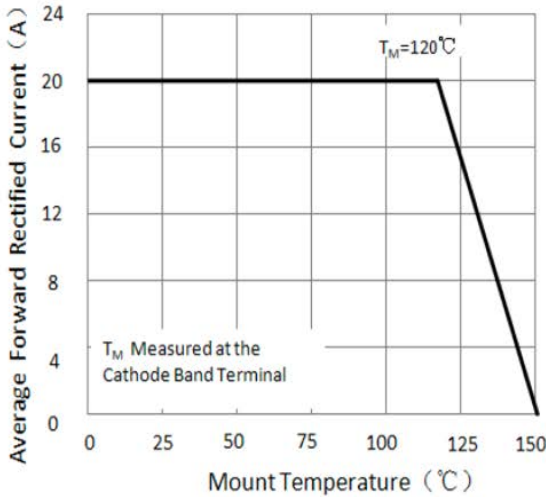


Figure 1. Forward Current Derating Curve

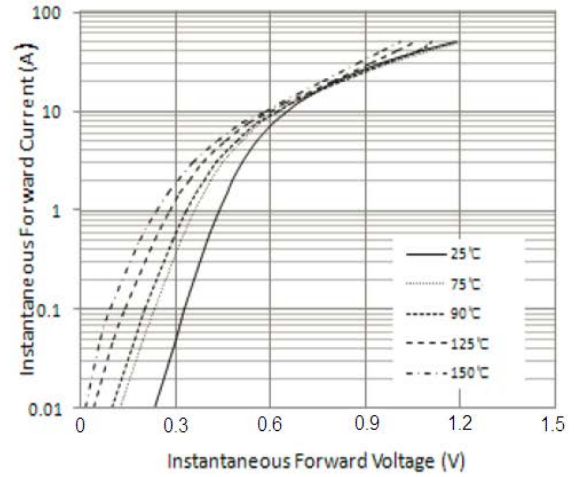


Figure 2. Typical Instantaneous Forward Characteristics

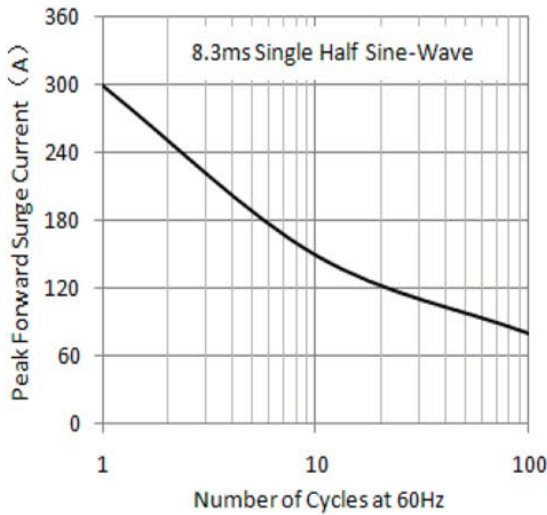


Figure 3. Maximum Non-Repetitive Peak Forward Surge Current

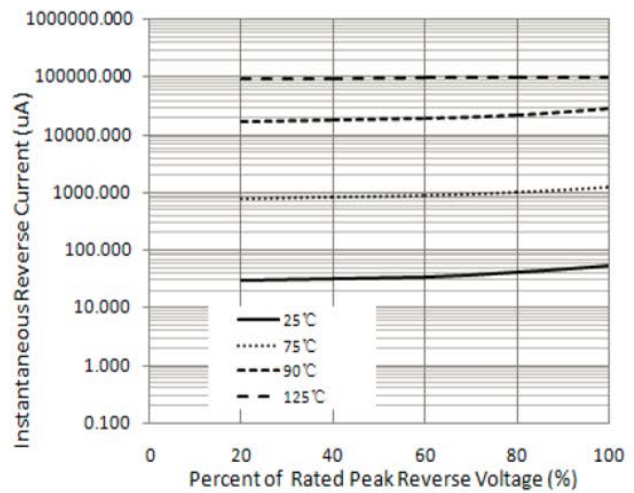


Figure 4. Typical Reverse Characteristics