

60V Surface Mounted Schottky Barrier Rectifiers

FEATURES :

- For surface mounted applications
- High forward surge current capability
- Low forward voltage drop
- High temperature soldering guaranteed
- RoHS compliant



TO-277B

MECHANICAL DATA :

- Case : Molded plastic body
- Polarity : As marking on body
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026



MAXIMUM RATINGS (Ratings at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current at $T_L=100\text{ }^\circ\text{C}$	$I_{(AV)}$	10	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Typical thermal resistance	$R_{\theta JC}$	8	$^\circ\text{C}/\text{W}$
Junction Temperature range	T_J	-55~+150	$^\circ\text{C}$
Storage temperature range	T_{STG}	-55~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (Ratings at 25°C ambient temperature unless otherwise specified.)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum instantaneous forward voltage at 10.0A	V_F	---	0.46	0.50	V
Maximum DC reverse current at rated DC blocking voltage	I_R		40 6.3	150	μA mA

Typical Characteristics

FIG-1 TYPICAL FORWARD CURRENT DERATING CURVE

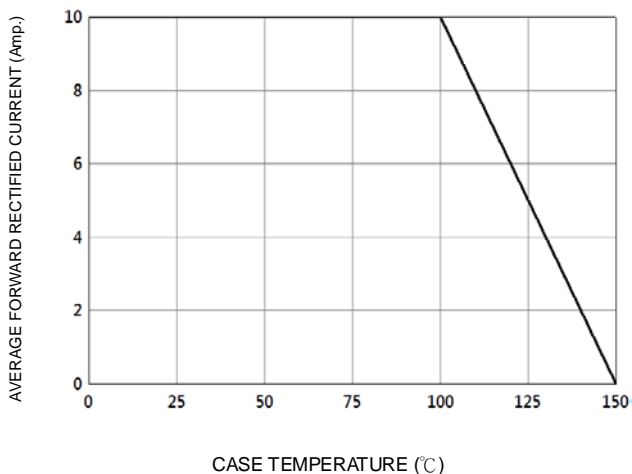


FIG-2 TYPICAL FORWARD CHARACTERISTICS

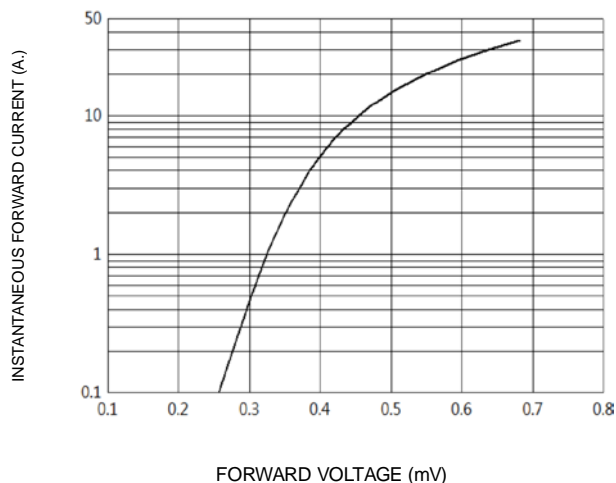


FIG-3 TYPICAL REVERSE CHARACTERISTICS

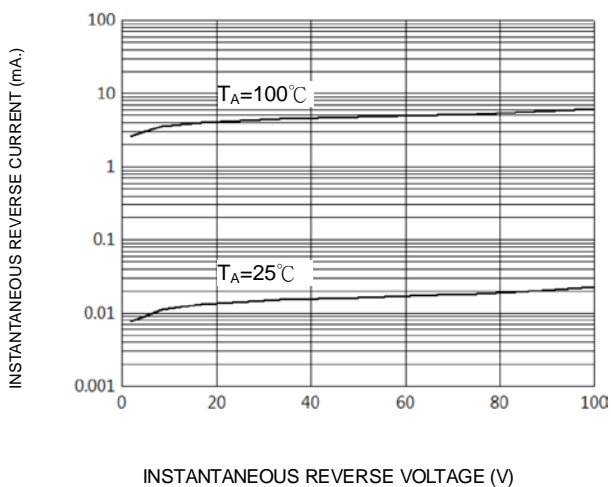
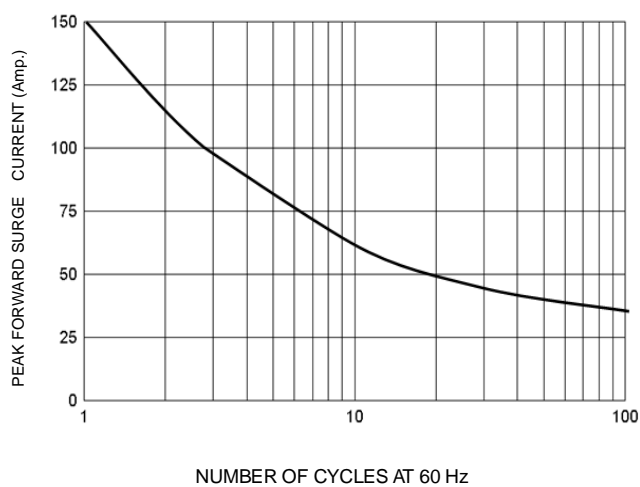


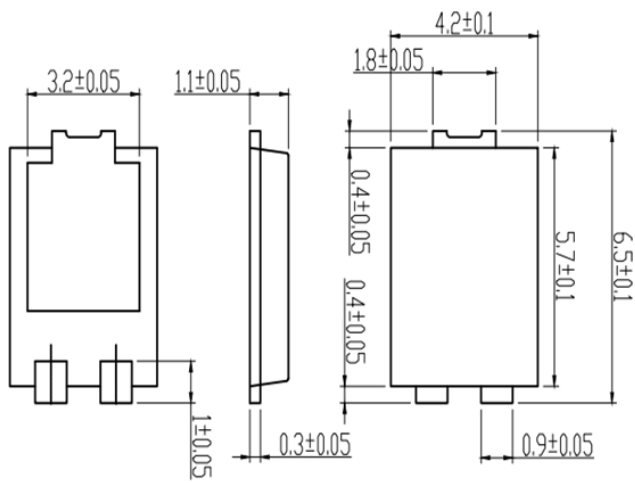
FIG-4 TYPICAL PEAK FORWARD SURGE CURRENT



- Circuit diagram & Marking :



- Package outlines : Dimensions in inches (millimeters)



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