

MURS160B

Super Fast Recovery Surface Mounted Rectifier

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed
260°C/10 seconds at terminals

Mechanical Data

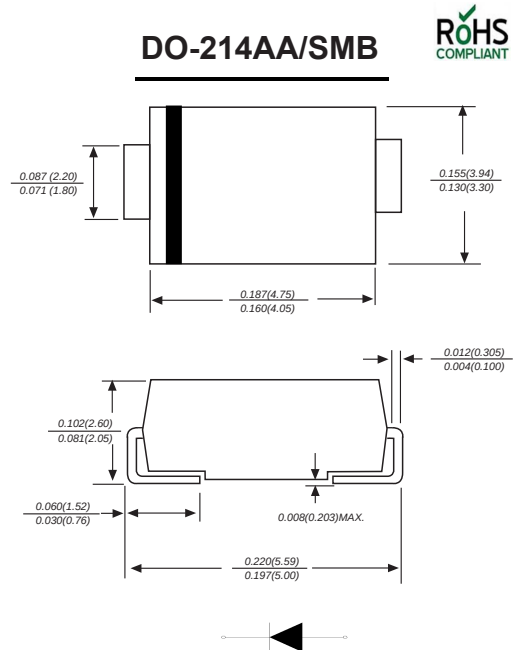
Case : Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.0035 ounce, 0.098 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MURS160B	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward rectified current at $T_L=150^{\circ}C$ at $T_L=125^{\circ}C$	$I_{(AV)}$	1.0 2.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed On Rated Load	I_{FSM}	35.0	A
Maximum instantaneous forward voltage at 1.0A	V_F	1.25	V
Maximum DC reverse current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=150^{\circ}C$	I_R	5.0 150	μA
Maximum reverse recovery time(Note 1)	T_{rr}	50	ns
Typical thermal resistance Junction-to-Lead ($T_L=25^{\circ}C$)	R_{qJL}	13.0	$^{\circ}C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +175	$^{\circ}C$

Note: 1.Reverse recovery time test condition: $I_F=0.5A$ $I_R=1.0A$ $I_{rr}=0.25A$

Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

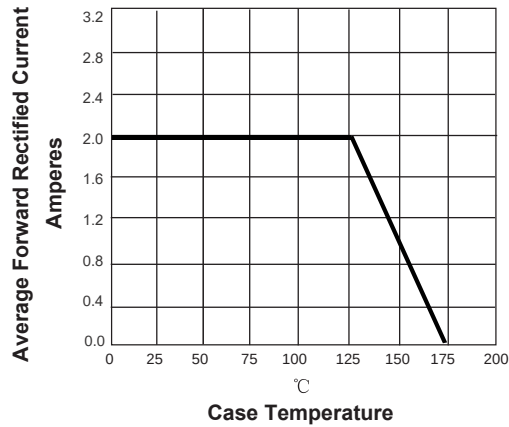


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

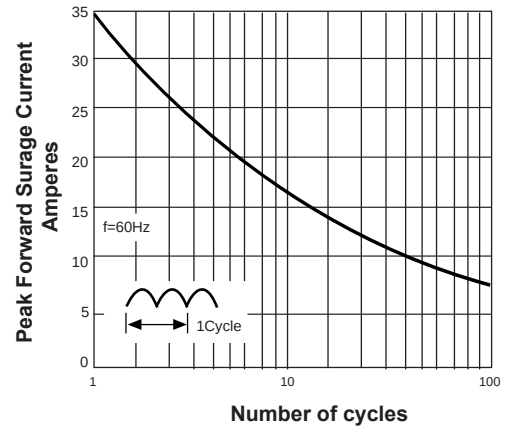


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

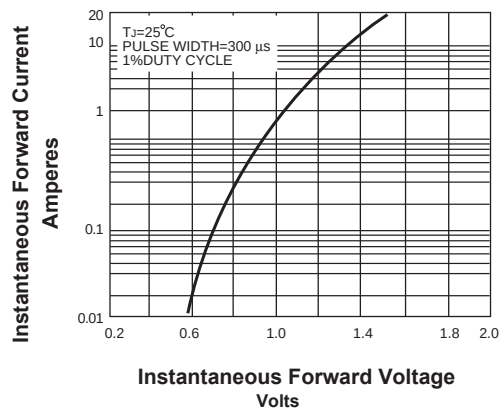


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

