



Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Open Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

Case: JEDEC 60B molded plastic body

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body Mounting

Position: Any

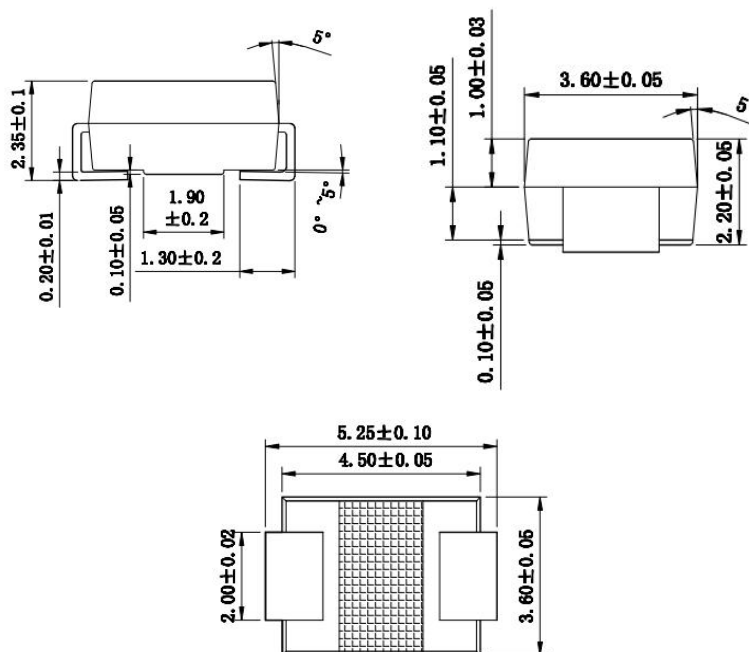
Weight : 0.005ounce, 0.138grams

Maximum Ratings And Elect 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%.

DO-214AA/SMB



Dimensions in inches and (milimeters)

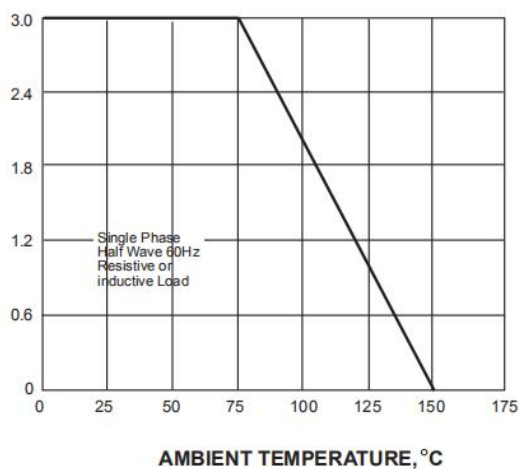
Type Number	SYMBOL	RS3M	unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current .at TA =55°C	$I_{F(AV)}$	3	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100.0	A
Maximum Forward Voltage at 2.0A DC	V_F	1.3	V
Maximum DC Reverse Current @TA =25°C At rated DC blocking voltage @TA=125°C	I_R	5.0	μA
		100	
Maximum reverse recovery time (Note1)	T_{rr}	500	nS
Typical Junction Capacitance (Note2)	C_j	60	pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	50	°C /W
Storage Temperature	T_{STG}	-55 to +150	°C
Operation Junction Temperature	T_J	-55 to +150	°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A
2.P.C.B. mounted with 2.0x2.0"(5x5cm) copper pad areas
3.The typical data above is for reference only.



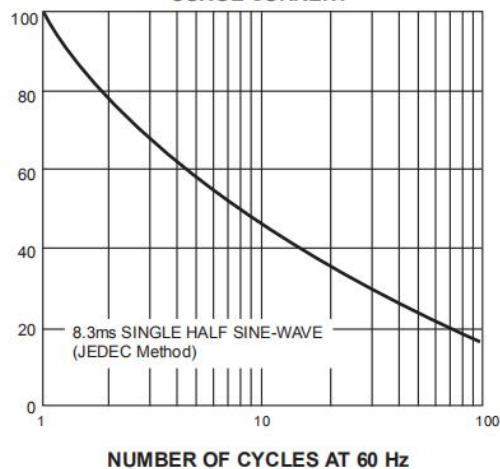
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



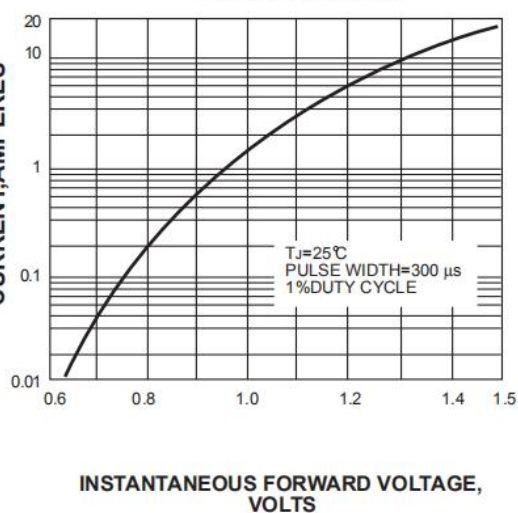
PEAK FORWARD SURGE CURRENT,
AMPERES

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



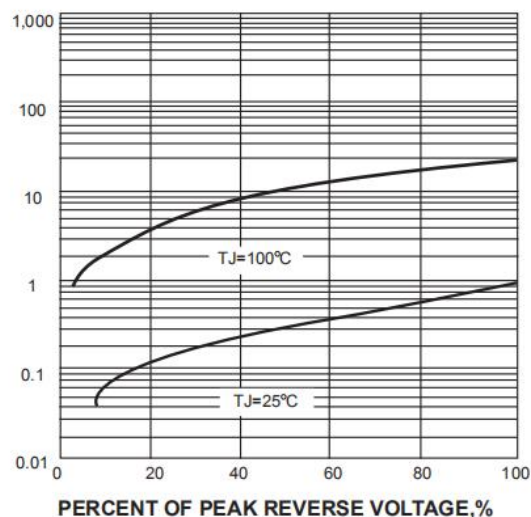
INSTANTANEOUS FORWARD
CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



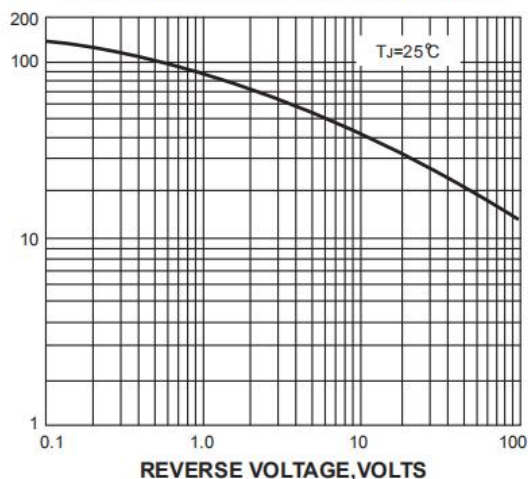
INSTANTANEOUS REVERSE CURRENT,
MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

