

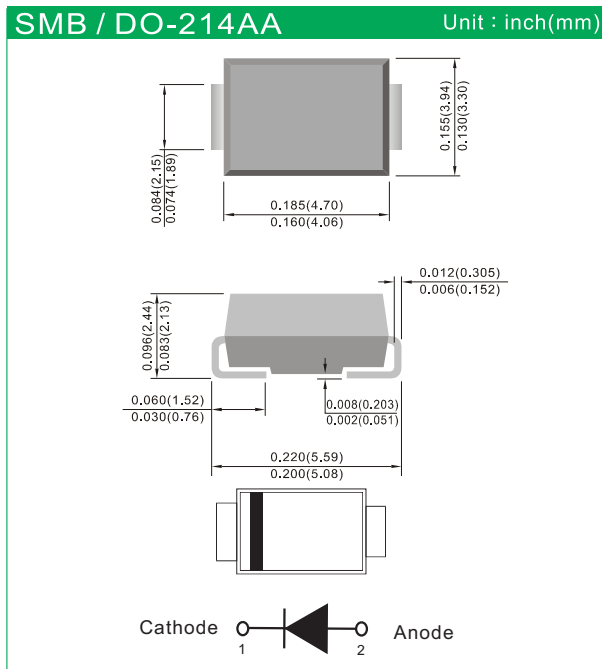
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE 20 TO 60 Volt CURRENT 3Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Low power loss, high efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. (Halogen Free)
- AEC-Q101 qualified (Automotive grade with suffix "Q".)
- Exsemi technology

Mechanical Data

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)



Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SS32L	SS33L	SS34L	SS35L	SS36L	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Current Lead Length	$I_{F(AV)}$	3					A
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	120					A
Maximum Forward Voltage at 3A (Note 1)	V_F	0.45			0.57		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}\text{C}$ $T_J=100^{\circ}\text{C}$	I_R	30 1000			20 500		μA
Typical Thermal Resistance (Note 2) (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	17 55					$^{\circ}\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150					$^{\circ}\text{C}$

NOTES :

1. Pulse Test with $PW = 300\mu\text{sec}$, 2% Duty Cycle.
2. Mounted on a FR4 PCB, single-sided copper, with 1 P.C.B. with 0.6"0.6" (16 mm x 16mm) cooper pad areas .

RATING AND CHARACTERISTIC CURVES

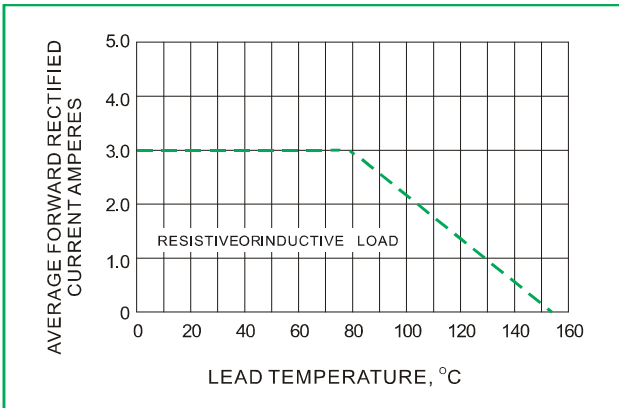


Fig.1- FORWARD CURRENT DERATING CURVE

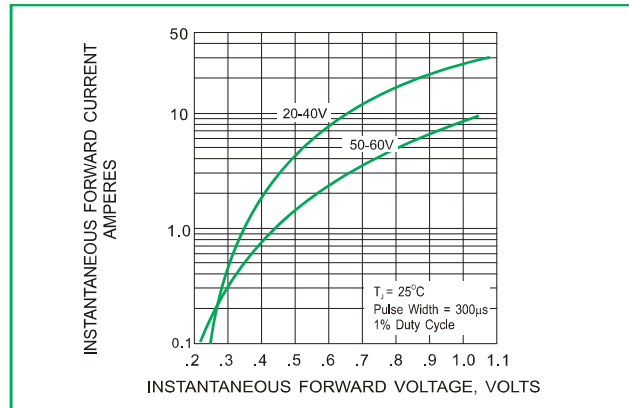


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

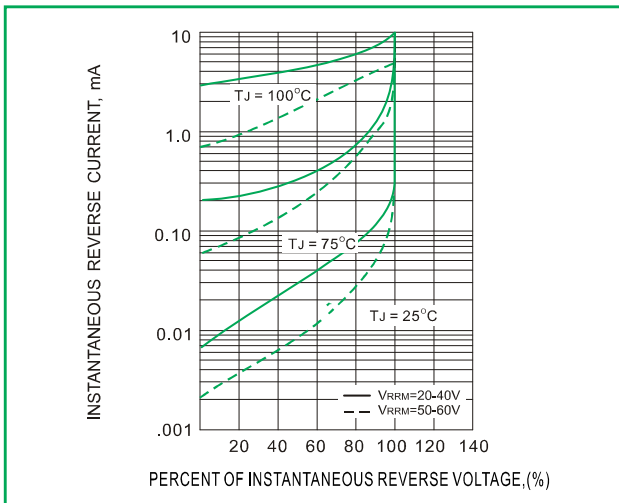


Fig.3- TYPICAL REVERSE CHARACTERISTIC

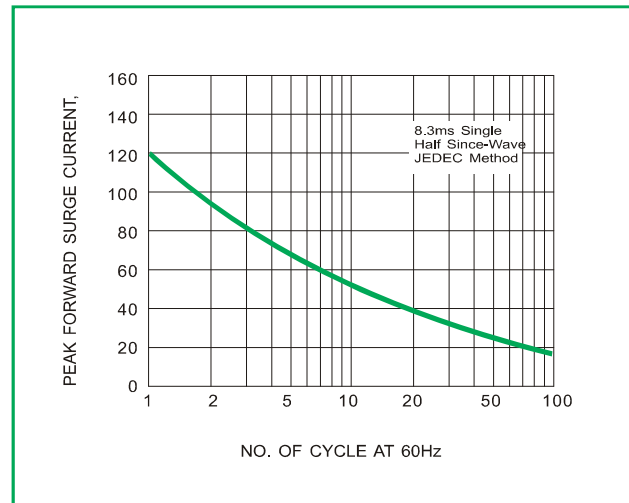


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

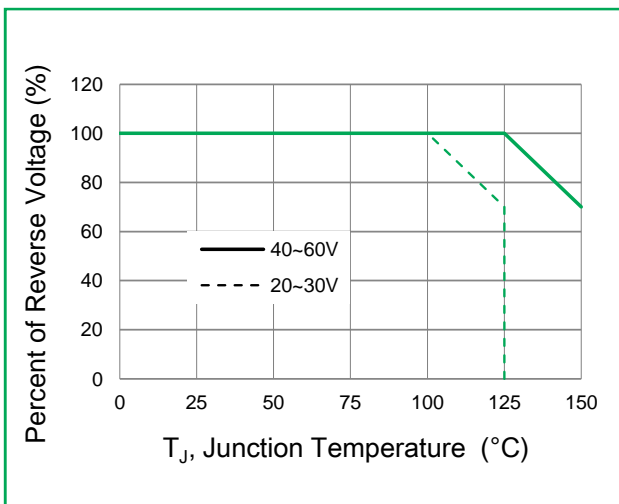


Fig.5- OPERATING TEMPERATURE DERATING CURVE