

Schottky Barrier Rectifier 1A, 60~150V DO-214SMA

SL1xxA series

MERITEK

FEATURE

- Low VF, High Surge Current Capability
- Low Power Losss, high Efficiency
- Metal to Silicon Rectifier, majority Carrier Conduction
- Application: High Frequency Inveters, Free Wheeling, Polarity Protection.



MECHANICAL DATA

- Case: DO-214AC SMA, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Flammability Classification 94V-0



MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SL16A	SL110A	SL115A	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	100	150	V
Maximum RMS Voltage	V_{RMS}	42	70	105	V
Maximum DC Blocking Voltage	V_{DC}	60	100	150	V
Maximum Average Forward Rectified Current	I_{AV}	1.0			A
Peak Forward Surge Current, 8.3ms single half sine wave (JEDEC method)	I_{FSM}	40			A
Maximum Forward Voltage at 1.0A	V_F	0.5	0.72	0.78	V
Maximum Reverse Current at Rated V_{DC}	$T_J=25^{\circ}C$	1.0			mA
	$T_J=100^{\circ}C$	10			
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	25.0			$^{\circ}C/W$
	$R_{\theta JL}$	35.0			
Operating Junction Temperature	T_J	-55 ~ 150			$^{\circ}C$
Storage Temperature	T_{stg}	-55 ~ 150			$^{\circ}C$

Note

1. Pulse Test: 300 μ s pulse width, 1% duty cycle.
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2"x0.2" (5.0x5.0mm) copper pad areas.
3. $T_A=25^{\circ}C$ unless otherwise noted

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CHARACTERISTIC CURVES

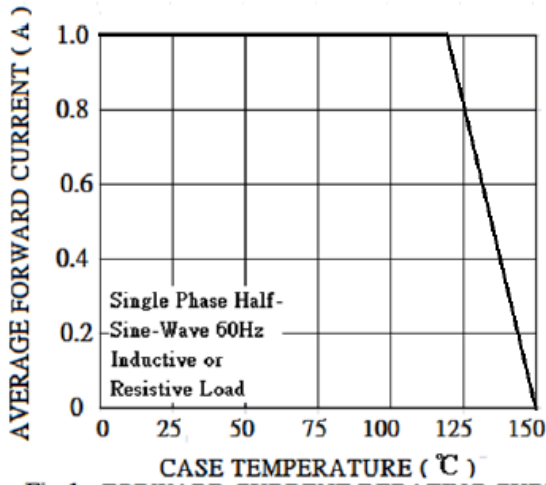


Fig.1 - FORWARD CURRENT DERATING CURVE

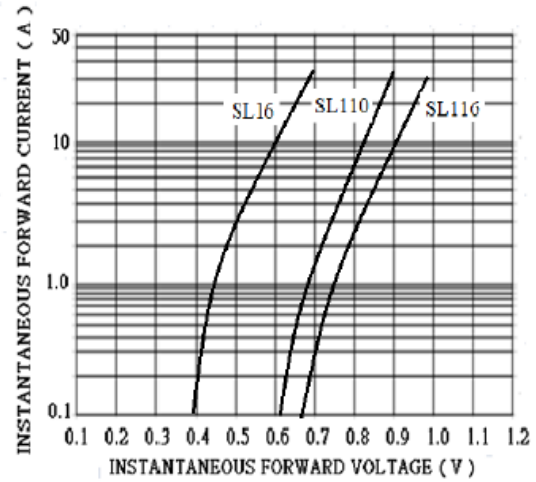


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

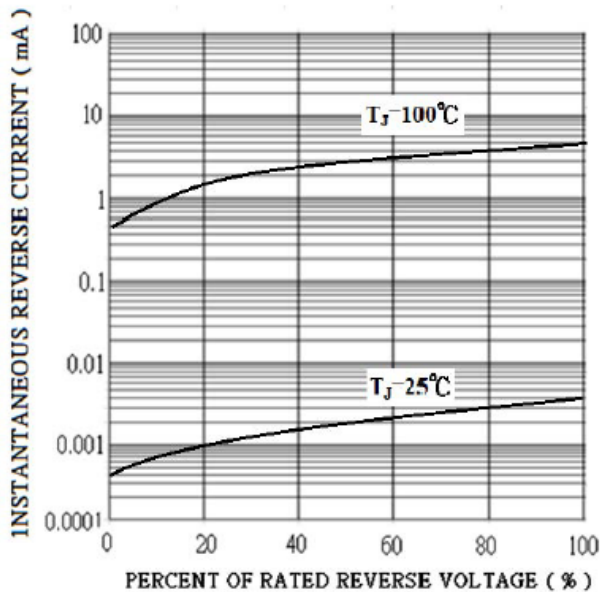


Fig.3- TYPICAL REVERSE CHARACTERISTICS

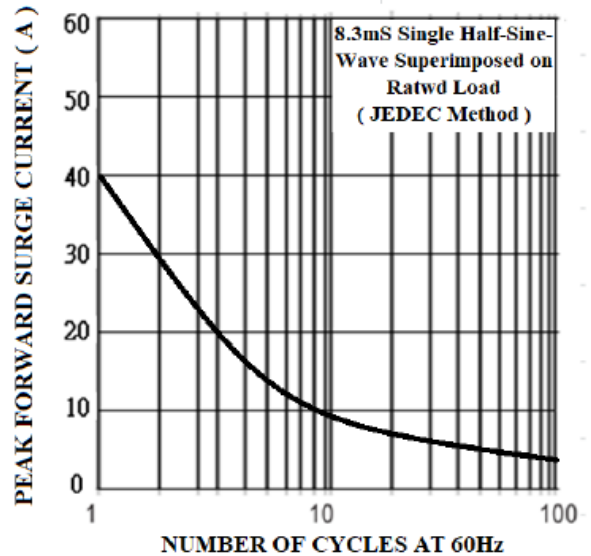


Fig.4- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

*Specifications subject to change without notice.