

SK315S - SK3DS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

PRV : 150 - 200 Volts

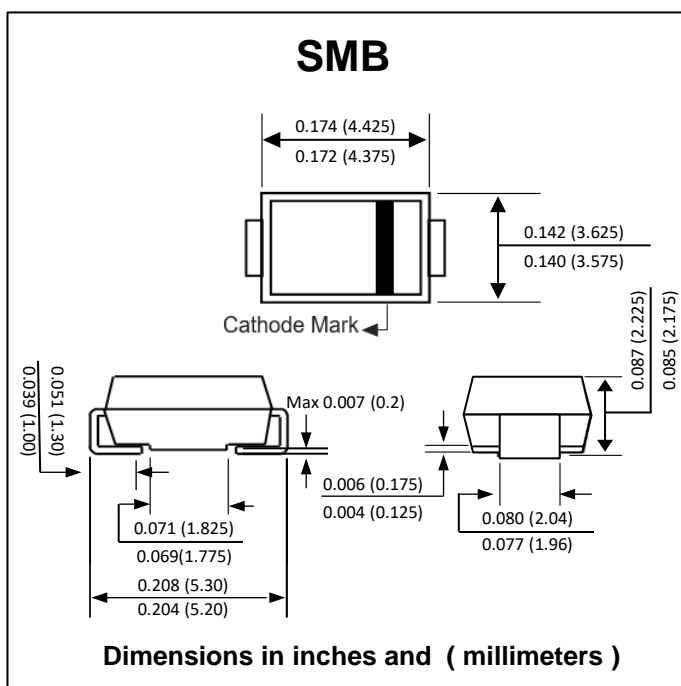
I_o : 3.0 Amperes

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : SMB Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.108 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

RATING	SYMBOL	SK315S	SK3DS	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150	200	V
Maximum RMS Voltage	V _{RMS}	105	140	V
Maximum DC Blocking Voltage	V _{DC}	150	200	V
Maximum Average Forward Current See Fig.1	I _{F(AV)}	3.0		A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	80		A
Maximum Forward Voltage at I _F = 3.0 A (Note 1)	V _F	0.90		V
Maximum Reverse Current T _J = 25 °C at Rated DC Blocking Voltage T _J = 25 °C	I _R	0.05		mA
	I _{R(H)}	20		mA
Typical Thermal Resistance (Note 2)	R _{θJL}	20		°C/W
	R _{θJA}	75		°C/W
Operating Junction Temperature Range	T _J	- 65 to + 175		°C
Storage Temperature Range	T _{STG}	- 65 to + 175		°C

Notes :

- (1) Pulse Test : Pulse Width = 300 ms, Duty Cycle = 2%
- (2) Mounted on P.C. Board with 8.0 mm² (0.013 mm thick) copper pad areas.



RATING AND CHARACTERISTIC CURVES (SK315S - SK3DS)

FIG.1 - FORWARD CURRENT DERATING CURVE

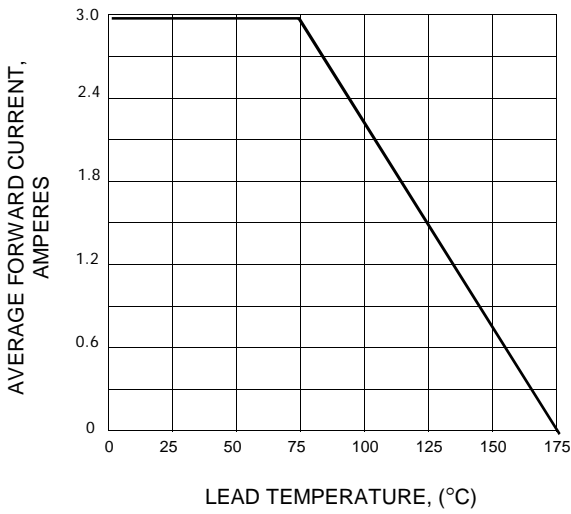


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

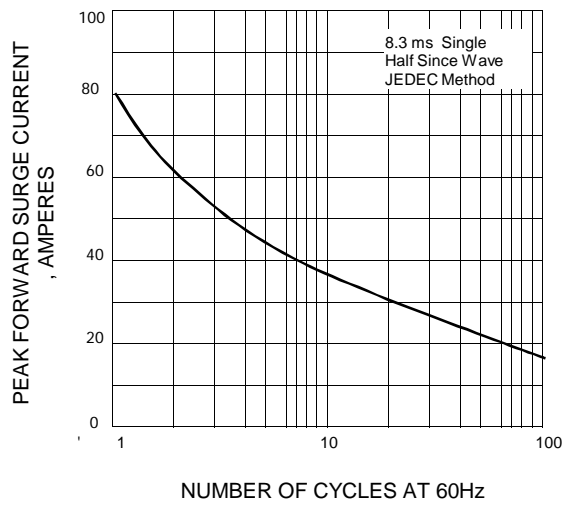


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

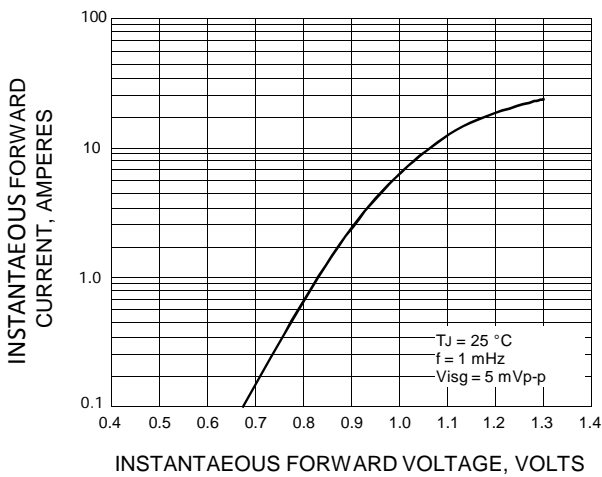


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

