



SS32 THRU SS3D

Surface Mount Schottky Barrier Rectifier

Features

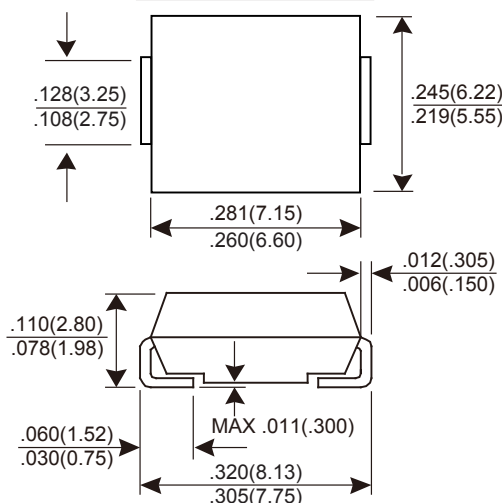
- ★ Low profile package
- ★ Ideal for automated placement
- ★ Guardring for overvoltage protection
- ★ Low power losses, high efficiency
- ★ Low forward voltage drop
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic, SMC/DO-214AB
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750, method 2026
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any

Voltage Range 20 to 200V
Current 3.0 Ampere

SMC/DO-214AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	SS32	SS33	SS34	SS35	SS36	SS38	SS3B	SS3C	SS3D	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current	$I_{F(AV)}$	3.0									A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	100									A	
Maximum instantaneous forward voltage @ $I_F=3.0A$	V_F	0.55			0.75		0.85		0.95		V	
Maximum DC reverse current at rated DC blocking voltage @ $T_A=25^\circ C$ @ $T_A=100^\circ C$	I_R	0.5					10					mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	55									$^\circ C/W$	
	$R_{\theta JL}$	17									$^\circ C/W$	
Operating junction temperature range	T_J	-55 to +125				-55 to +150					$^\circ C$	
Storage temperature range	T_{STG}	-55 to +150									$^\circ C$	

NOTE : (1) PCB mounted with 0.55" x 0.55" (14 mm x 14 mm) copper pad areas

RATINGS AND CHARACTERISTICS CURVES SS32 THRU SS3D

Fig.1 - Forward Current Derating Curve

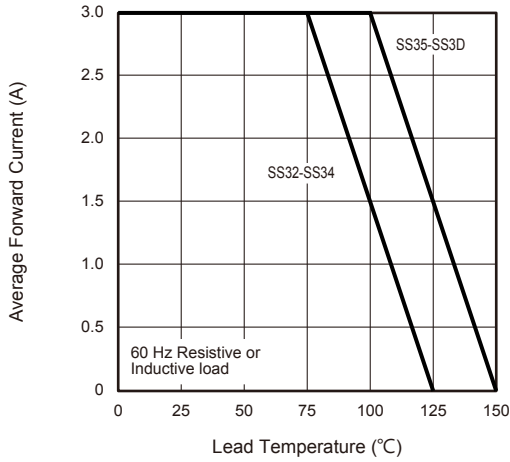


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

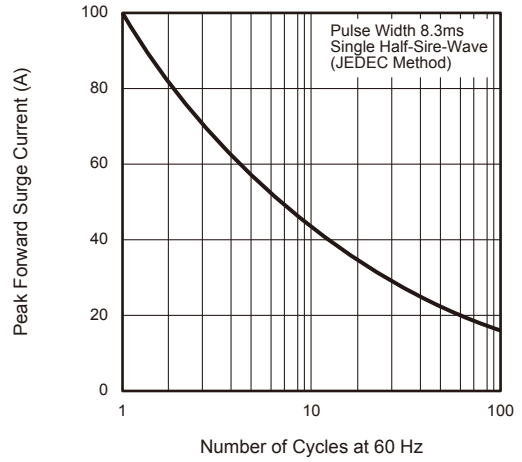


Fig.3 - Typical Instantaneous Forward Characteristics

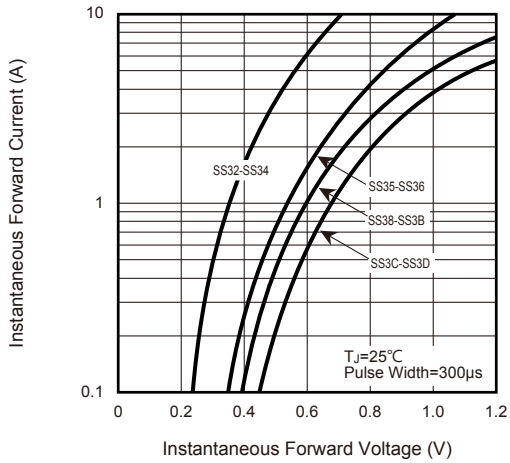


Fig.4 - Typical Reverse Leakage Characteristics

