SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS32B--SS310B

FEATURES

- Schottky barrier rectifier
- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance

Lead-free



MECHANICAL DATA

- Case: SMB molded plastic body
- Polarity: Color band denotes cathode end
- Mounting position: ANY

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	SS32B	SS33B	SS34B	SS345B	SS35B	SS36B	SS38B	SS39B	SS310B	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	45	50	60	80	90	100	V
Maximum RMS voltage	V_{RWS}	14	21	28	31.5	35	42	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	45	50	60	80	90	100	V
Maximum average forward rectified current at T_L=90℃	$I_{F(AV)}$	3.0									A
Peak forward surge current 8.3ms single half-sine-wave	I_{FSM}	100									A

Thermal Characteristics

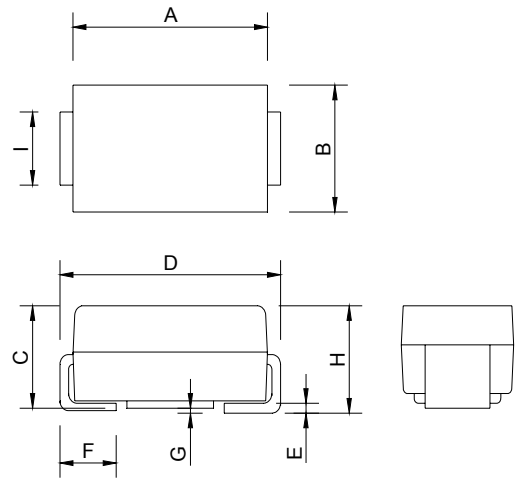
Characteristic	Symbol	SS32B	SS33B	SS34B	SS345B	SS35B	SS36B	SS38B	SS39B	SS310B	UNITS
Maximum thermal resistance	$R_{\theta JL}$	17.0									℃/W
Operating temperature range	T_J	-55----+125						-55----+150			℃
Storage temperature range	T_{STG}	-55----+150									℃

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	SS32B	SS33B	SS34B	SS345B	SS35B	SS36B	SS38B	SS39B	SS310B	UNITS
Maximum instantaneous forward voltage at I_{FM}=3.0A	V_F	0.50				0.75		0.85			V
Maximum DC reverse current T_J=25℃	I_R	0.5									m A
at rated DC blocking voltage T_J=125℃		20				10		5.0			

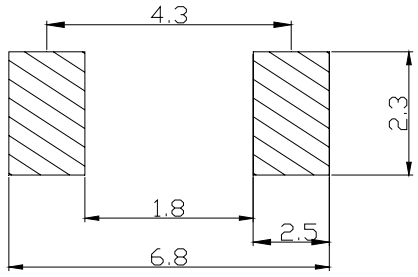
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BARRIER RECTIFIERS ***SS32B--SS310B***

PACKAGE OUTLINE DIMENSIONS



DO-214AA(SMB)		
Dim	Min	Max
A	4.30	4.70
B	3.30	3.70
C	2.00	2.30
D	5.05	5.55
E	0.10	0.30
F	0.95	1.55
G	0.20MAX	
H	2.10	2.50
I	1.85	2.15
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit ： mm

PACKAGE INFORMATION

Device	Package	Shipping
SS32B--SS310B	DO-214AA(SMB)	3000/Tape&Reel

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FIG.1 – FORWARD DERATING CURVE

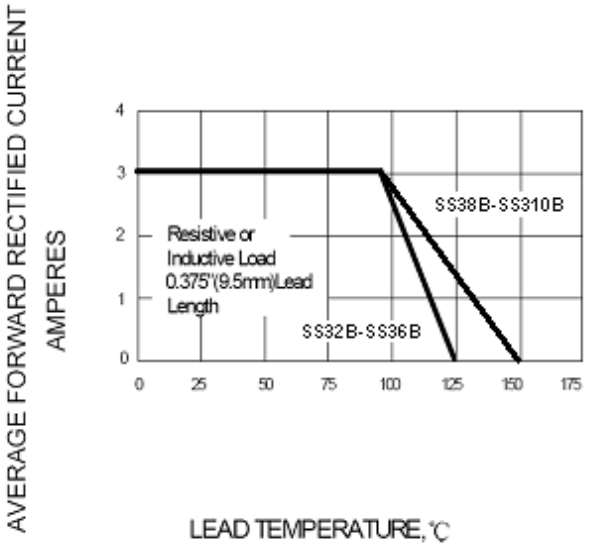


FIG.2 – PEAK FORWARD SURGE CURRENT

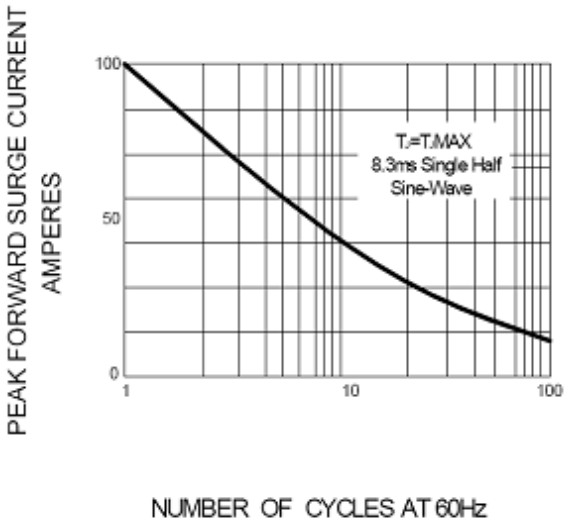


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

