3.0Amp Surface Mounted Schottky Barrier Rectifiers

FEATURES：

- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals
- For surface mounted applications
- RoHS compliant.

SMB

MECHANICAL DATA：

- Case：SMB/DO-214AA,Molded plastic body
- Terminals：Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity：As marking on body

MAXIMUM RATINGS (Ratings at 25 ℃ ambient temperature unless otherwise specified)

Characteristic	Symbol	SR32	SR34	SR36	SR38	SR310	SR315	SR320	Unit
Peak Repetitive Reverse Voltage DC Blocking Voltage	V_{RRM} V_{DC}	20	40	60	80	100	105	200	V
RMS Voltage	V_{RMS}	14	28	42	56	70	105	140	V
Average Rectifier Forward Current at T_L=100℃	$I_{(AV)}$	3.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80							A
Maximum instantaneous forward voltage at 3.0A	V_F	0.55		0.70	0.85		0.95		V
Maximum DC reverse current at rated DC blocking voltage (T_A=25℃ / T_A=125℃)	I_R	0.5 / 50			0.05 / 10				mA
Typical Thermal resistance, Junction to Ambient	$R_{\theta JA}$	85							℃/W
Operating temperature range	T_J	-55 to +150							℃
Storage temperature range	T_{STG}	-55 to +150							℃

RATINGS AND CHARACTERISTICS CURVES

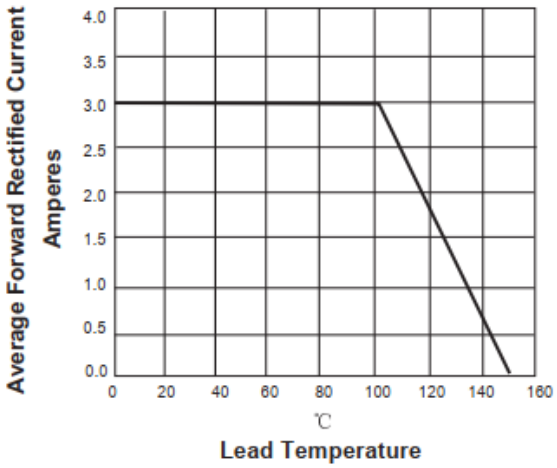


Figure 1. DERATING CURVE OUTPUT RECTIFIED CURRENT

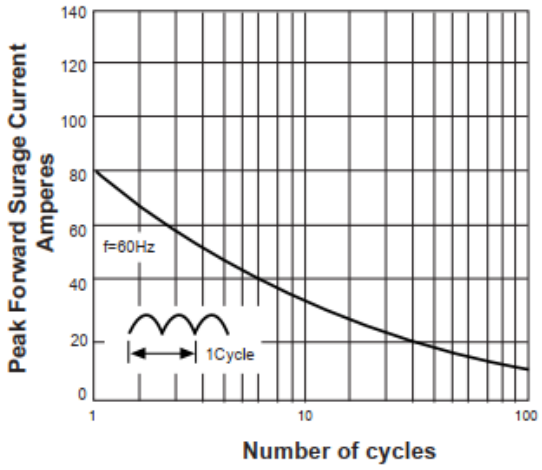


Figure 2. MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

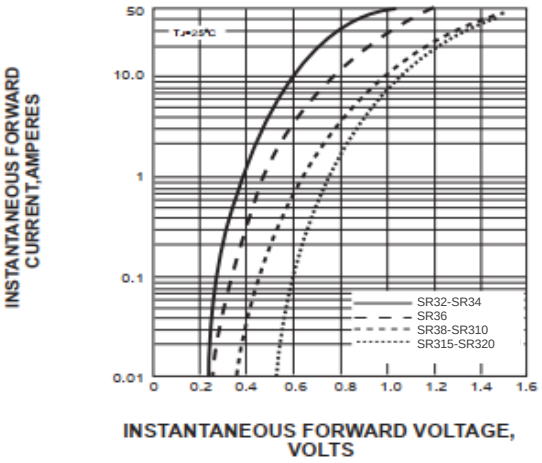


Figure 3. TYPICAL FORWARD VOLTAGE CHARACTERISTICS

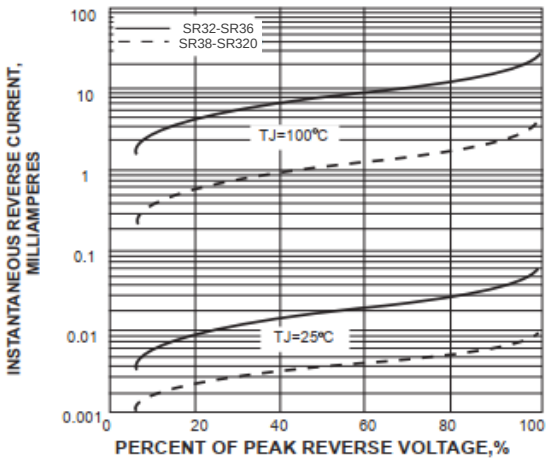
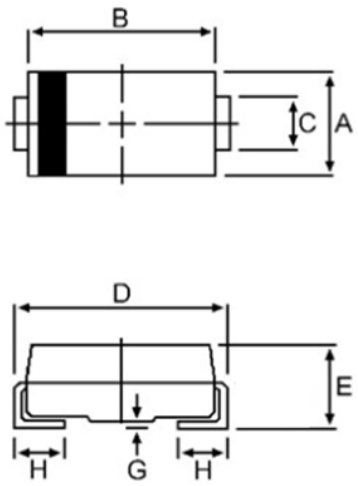


Figure 4. TYPICAL REVERSE LEAKAGE CHARACTERISTICS

• Package outlines : Dimensions in millimeters



DIM	MILLIMETERS	
	MIN	MAX
A	3.30	3.94
B	4.06	4.60
C	1.80	2.20
D	4.90	5.60
E	2.00	2.60
G		0.203
H	0.75	1.55

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