B L GALAXY ELECTRICAL

SS32 - - - SS310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 20 - 100 V
FORWARD CURRENT: 3.0 A

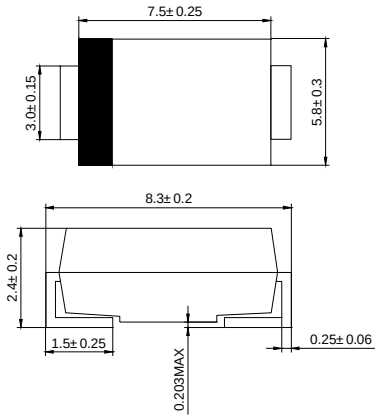
FEATURES

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

MECHANICAL DATA

- ◇ Case: SMC molded plastic body
- ◇ Polarity: Color band denotes cathode end
- ◇ Mounting position: ANY
- ◇ Weight: 0.007 ounces, 0.21 gram

SMC



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	UNITS
Device marking code		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V_{RWS}	14	21	28	35	42	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	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}	100.0								A
Maximum instantaneous forward voltage at I_{FM}=3.0A (NOTE1)	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					
Maximum thermal resistance	$R_{\theta JL}$	17.0								°C/W
Operating temperature range	T_J	- 55 ---- +125								°C
Storage temperature range	T_{STG}	- 55 ---- +150								°C

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

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FIG.1 -- FORWARD DERATING CURVE

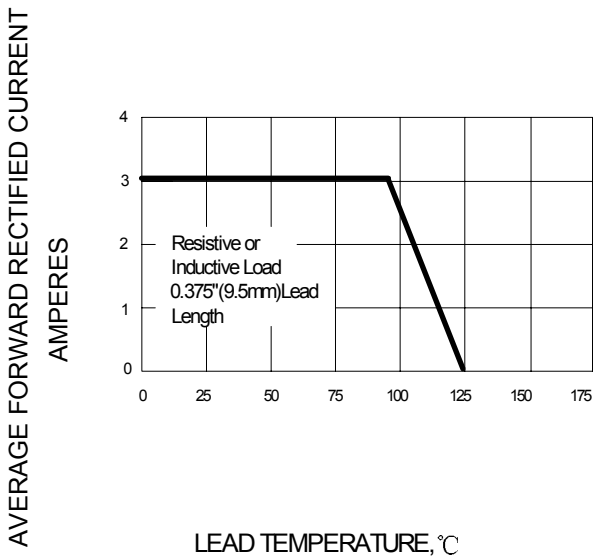

FIG.2 -- PEAK FORWARD SURGE CURRENT

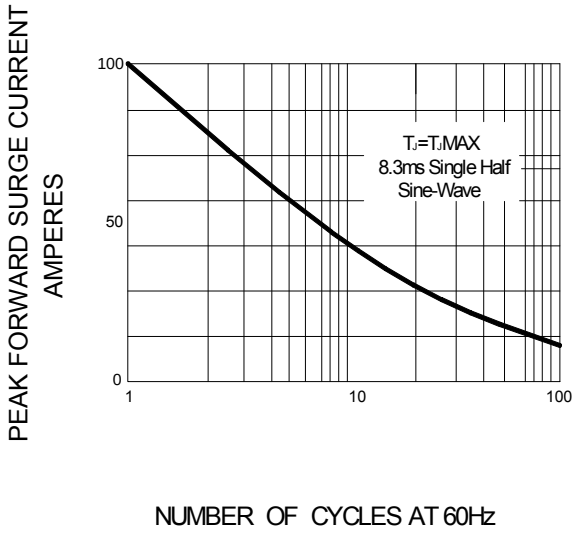

FIG.3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS