SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS ***SS32BT--SS310BT***

FEATURES

Lead-free

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

MECHANICAL DATA

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

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

Characteristic	Symbol	SS32 BT	SS33 BT	SS34 BT	SS345 BT	SS35 BT	SS36 BT	SS38 BT	SS39 BT	SS310 BT	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	SS32 BT	SS33 BT	SS34 BT	SS345 BT	SS35 BT	SS36 BT	SS38 BT	SS39 BT	SS310 BT	UNITS
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	SS32 BT	SS33 BT	SS34 BT	SS345 BT	SS35 BT	SS36 BT	SS38 BT	SS39 BT	SS310 BT	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℃ at rated DC blocking voltage T_J=125℃	I_R	0.5									m A
		20				10					

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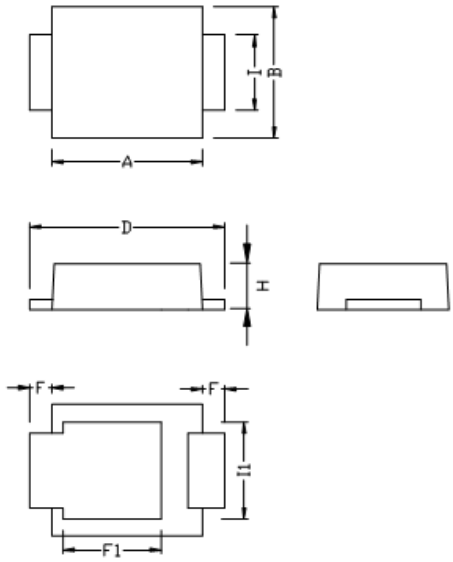
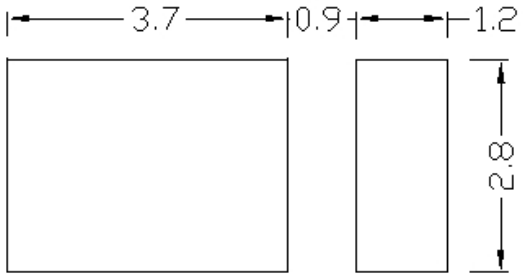
PACKAGE OUTLINE DIMENSIONS



SMBT		
Dim	Min	Max
A	3.80	4.20
B	3.30	3.70
D	5.00	5.40
F	0.45	0.75
F1	2.55	2.95
H	1.10	1.30
I	1.85	2.15
I1	2.40	2.80
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit ： mm

PACKAGE INFORMATION

Device	Package	Shipping
SS32BT--SS310BT	SMBT	4000/Tape&Reel

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS32BT--SS310BT

FIG.1 – FORWARD DERATING CURVE

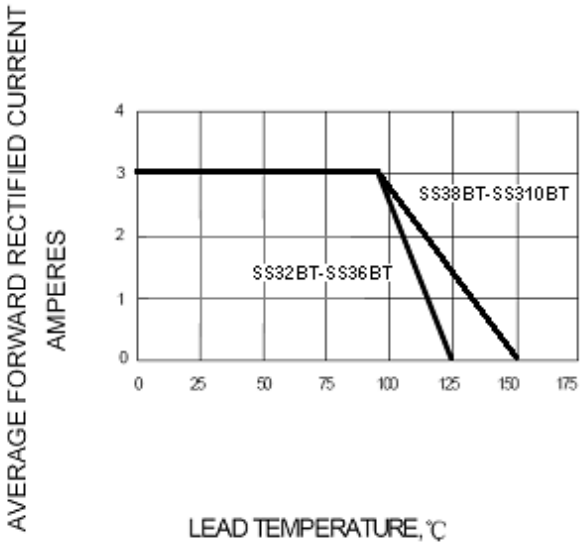


FIG.2 – PEAK FORWARD SURGE CURRENT

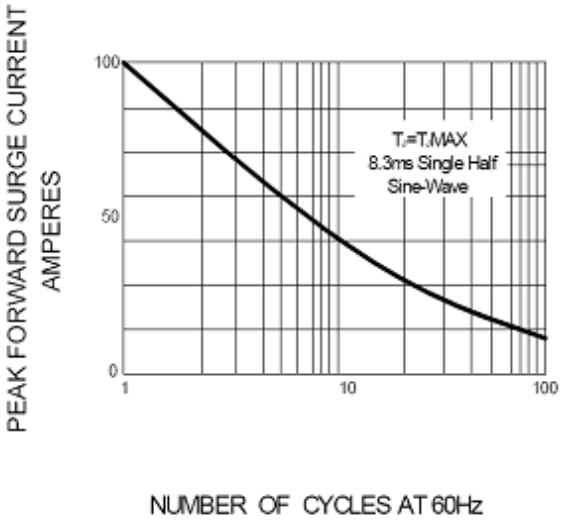


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS