SS860TB

Surface Mount Schottky Barrier Rectifiers

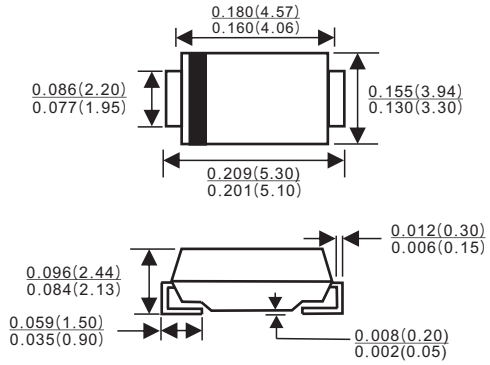
Features

- ✧ Ideal for automated placement
- ✧ Ultra low forward voltage drop, low power losses
- ✧ High efficiency Operation
- ✧ Low thermal resistanc
- ✧ Lead free in comply with EU RoHS 2011/65/EU directives.
- ✧ Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- ✧ Case:JEDEC SMB,molded plastic over passivated chip
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.093 gram

SMB/DO-214AA



Dimensions in inches and(millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Parameter		SS860TB	UNITS
Marking code		SS860T	
Maximum recurrent peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RWS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forw ord rectified current at T_L(SEE FIG.1) (NOTE 2)	$I_{(AV)}$	8.0	A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load(JEDEC Method)	I_{FSM}	150	A
Maximum instantaneous forw ard voltage at 8.0A(NOTE 1)	V_F	0.53	V
Typical Junction Capacitance (VR=4V, f=1MHz)	Cj	410	V
Maximum DC reverse current @T_A=25°C	I_R	0.5	mA
at rated DC blockjing voltage(NOTE1) @T_A=100°C		20	
Typical thermal resitance (NOTE2)	$R_{\theta JA}$ $R_{\theta JL}$	55 17	°C/W
Operating junction temperature range	T_J	-55--- +150	°C
Storage temperature range	T_{STG}	-55--- +150	°C

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

2. P.C.B.mounted with 0.55"X0.55"(14.0X14.0mm²)copper pad areas

SS860TB

Surface Mount Schottky Barrier Rectifiers

Ratings AND Charactieristic Curves

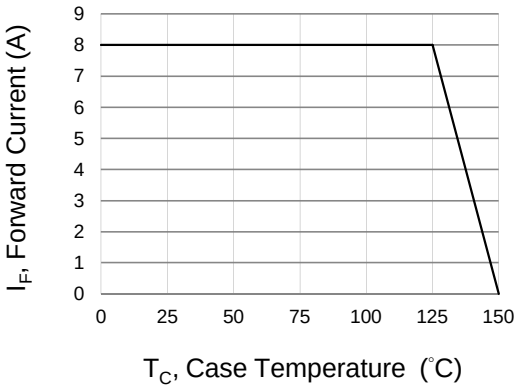


Fig.1 Forward Current Derating Curve

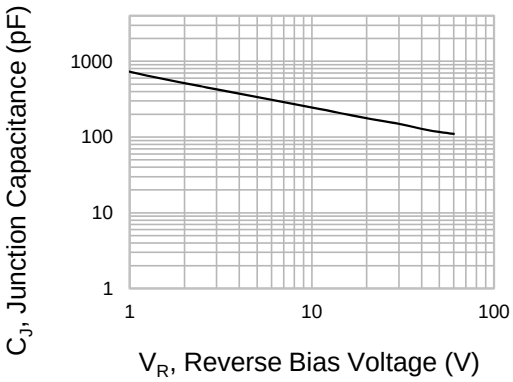


Fig.2 Typical Junction Capacitance

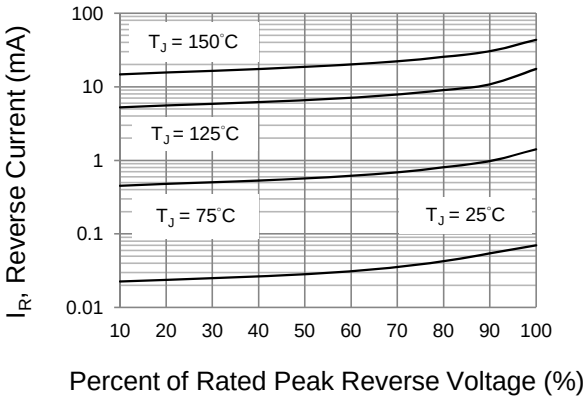


Fig.3 Typical Reverse Characteristics

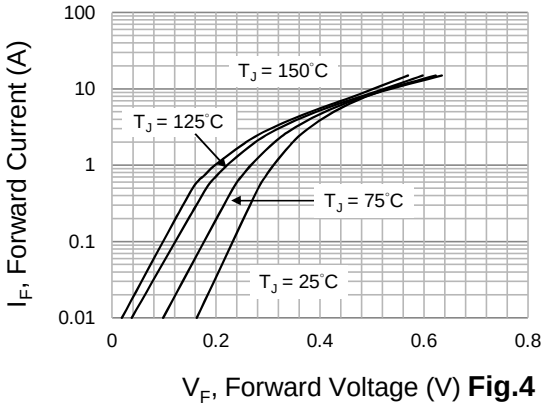


Fig.4 Typical Forward Characteristics

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMB	3000/REEL	48000	36X35.8X36.5	12.00	11.00