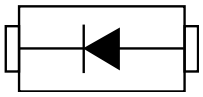
Prisemi®

PSBDB60V2

Schottky Barrier diode

Feature

- mold type. SMB
- Low I_R
- High reliability.



Applications

- Low current rectification

Construction

- Silicon epitaxial planar

Mechanical Characteristics

- Lead finish:100% matte Sn(Tin)
- Mounting position: Any
- Qualified max reflow temperature:260℃
- Device meets MSL 1 requirements
- Pure tin plating: 7 ~ 17 um
- Pin flatness：≤3mil

Electrical characteristics per line@25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.7	V	I_F=2A
Reverse current	I_R	-	-	2	mA	V_R=50V

Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V_{RM}	60	V
Average rectified forward current	I_o	2	A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	40	A
Operating Junction temperature Range	T_j	-55 to 125	℃
Storage temperature	T_{stg}	-40 to +125	℃

Typical Characteristics

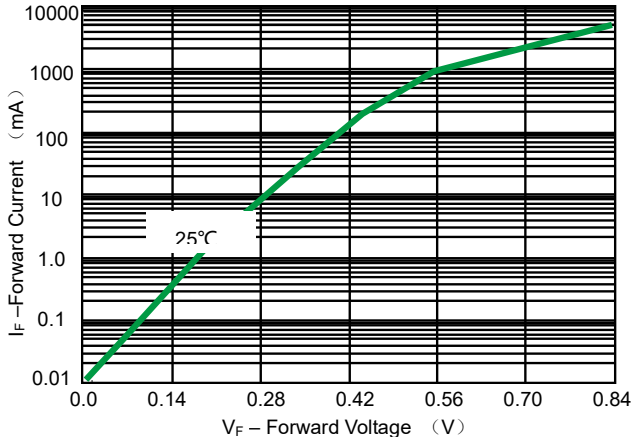


Fig 1.Forward Voltage

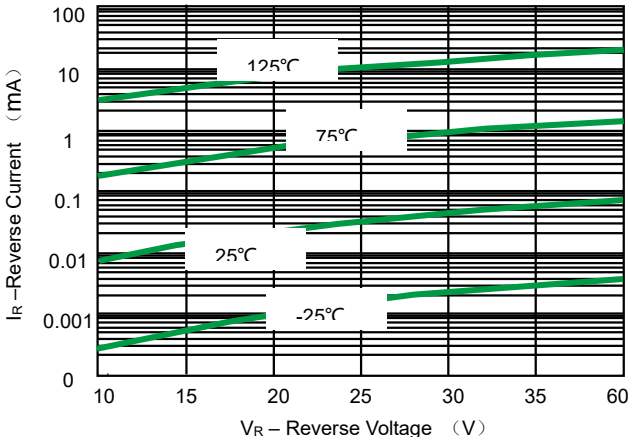


Fig 2.Leakage Current

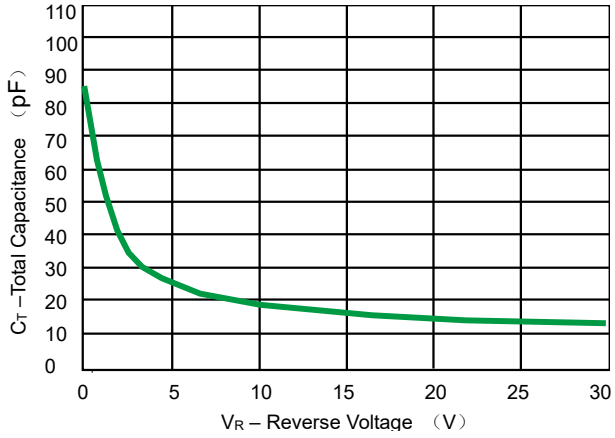
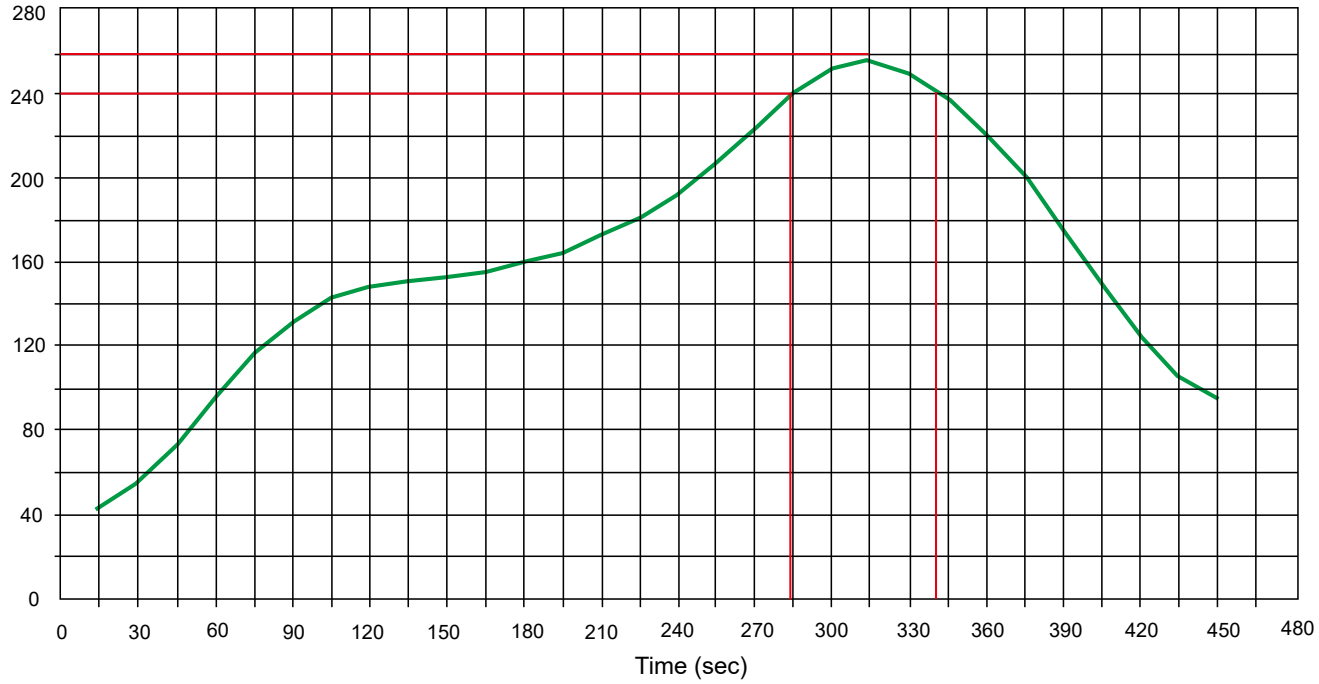


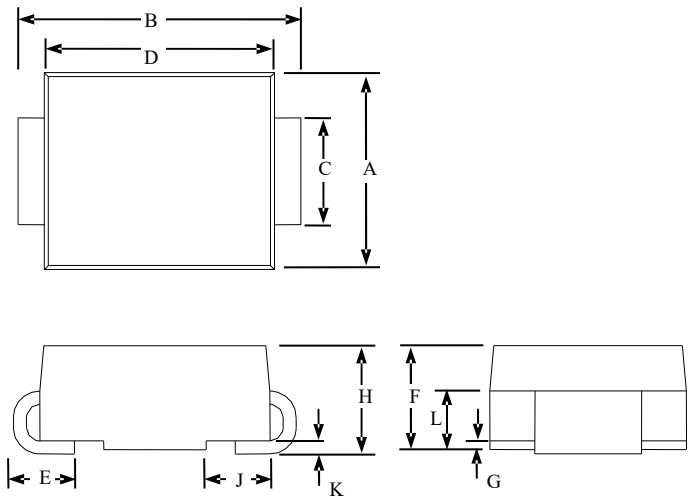
Fig 3.Total Capacitance

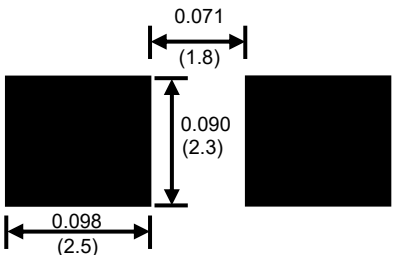
Solder Reflow Recommendation

Peak Temp=257℃, Ramp Rate=0.802deg. ℃/sec



Product dimension(SMB)





DIMENSIONS ARE : INCHES / (Millimeters)

Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.134	0.155	3.40	3.94
B	0.205	0.220	5.21	5.59
C	0.075	0.083	1.90	2.11
D	0.166	0.185	4.22	4.70
E	0.036	0.056	0.91	1.42
F	0.073	0.087	1.85	2.10
G	0.002	0.008	0.05	0.20
H	0.077	0.094	1.95	2.40
J	0.043	0.053	1.09	1.35
K	0.008	0.014	0.20	0.35
L	0.039	0.049	0.99	1.24

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