

Schottky Barrier diode

Feature

- Ultra Small mold type. SMC
- 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 °C
- Device meets MSL 1 requirements
- ➤ Pure tin plating: 7 ~ 17 um
- Pin flatness:≤3mil

Electrical characteristics per line@25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	VF	-	-	0.55	V	I _F =3A
Reverse current	I _R	-	-	0.5	mA	V _R =40V

Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V _{RM}	40	V
Average rectified forward current	lo	3	А
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load	Ігѕм	80	А
Operating Junction temperature Range	Tj	-55 to 125	°C
Storage temperature	T _{stg}	-40 to +125	°C

Typical Characteristics

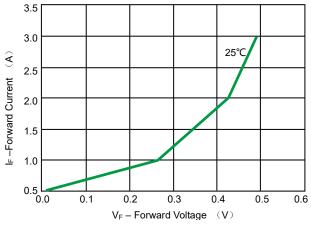


Fig 1.Forward Voltage

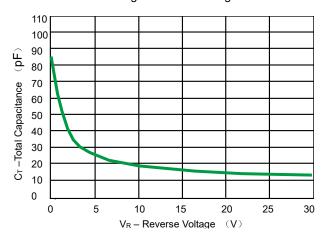


Fig 3.Total Capacitance

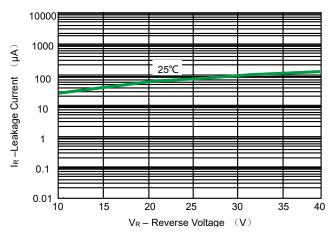
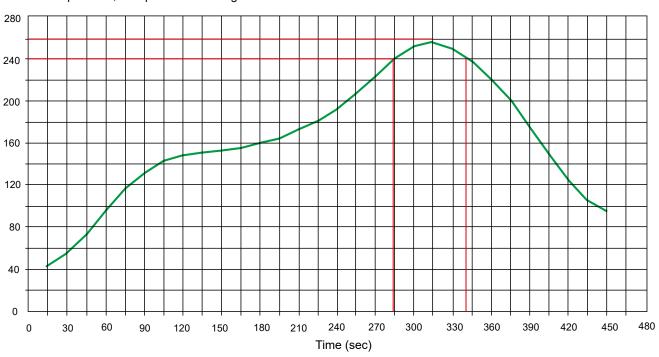


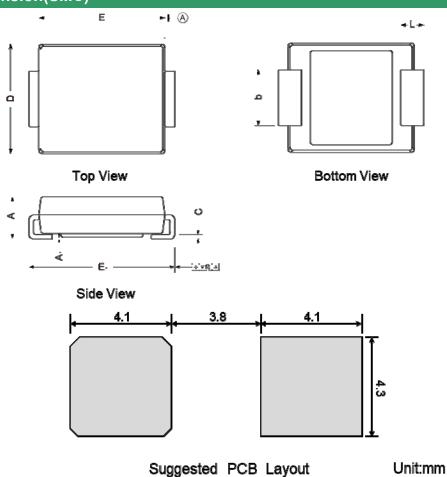
Fig 2.Leakage Current

Solder Reflow Recommendation

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



Product dimension(SMC)

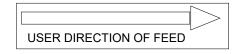


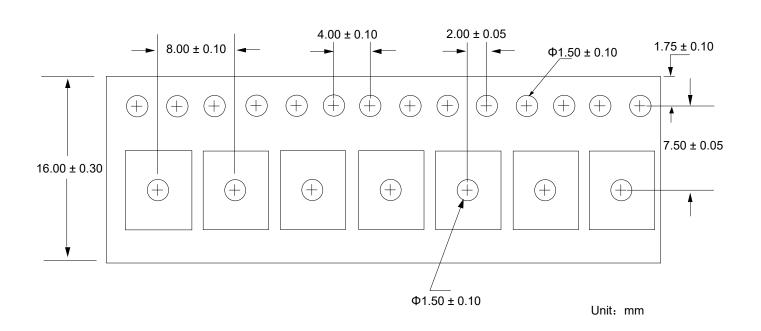
Dim	Millim	neters	Inches		
Dim	Min	Max	Min	Max	
А	2.00	2.62	0.079	0.103	
E	6.50	7.00	0.256	0.276	
D	5.60	6.20	0.220	0.244	
E ₁	7.50	8.00	0.299	0.315	
A 1	0.05	0.21	0.002	0.008	
С	0.15	0.31	0.006	0.012	
L	0.90	1.60	0.035	0.063	
b	2.75	3.25	0.108	0.128	

Ordering information

Device	Package	Reel	Shipping
PSBDC40V3	SMC (Pb-Free)	13"	3000 / Tape & Reel

Load with information





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