

Schottky Barrier Rectifier

General Description

The SDB360 surface mounted Schottky rectifier has been designed for applications requiring low forward drop and very small foot prints on PC boards. Typical applications are in disk drives, switching power supplies, converters, free-wheeling diodes, battery charging, and reverse battery protection.

Features and Benefits

- · Low forward drop voltage and low reverse leakage current
- · Low power rectified
- "Green" device and RoHS compliant device
- Available in full lead (Pb)-free device

Applications

- Portable equipment battery applications
- Switching mode power supplies applications

Ordering Information

Halogen Star	RoHS	Potes

SOD-106

Part Number	Marking Code	Package	Packaging
SDB360	3A60	SOD-106	Tape & Reel

Marking Information



3A60 = Specific Device Code

YWW = Year & Week Code Marking -. Y = Year Code -. WW = Week Code

= Color band denote cathode

Pinning Information

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode		

Absolute Maximum Ratings (T_{amb}=25°C, Unless otherwise specified)

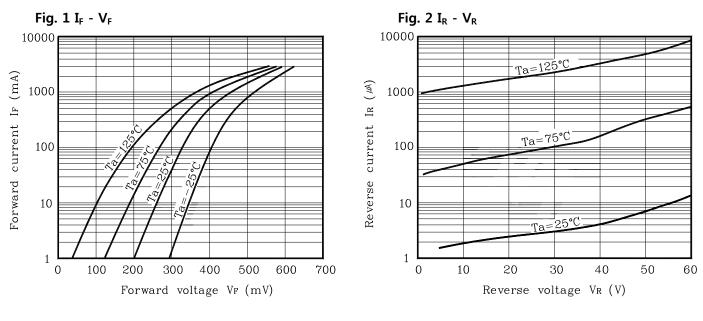
Characteristic	Symbol	Ratings	Unit	
Peak reverse voltage	V _{RM}	60	V	
Reverse voltage	V _R	60	V	
Forward current	I _F	3.0	А	
Peak surge forward current (Non-repetitive 60Hz sine wave)	I _{FSM}	120	А	
Junction temperature	TJ	150	° C	
Storage temperature range	T _{stg}	-55 ~ 150	°C	

Electrical Characteristics (T_{amb}=25°C, Unless otherwise specified)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	$V_{\sf F}^{\ 1)}$	I _F =3A	-	-	0.65	V
Reverse current	$I_R^{(2)}$	V _R =60V	-	-	0.35	mA
Thermal resistance	$R_{th(j-a)}{}^{3)}$	Junction to ambient	-	-	76	°C/W
Total capacitance	CT	V _R = 10V, f=1MHz	-	100	-	pF

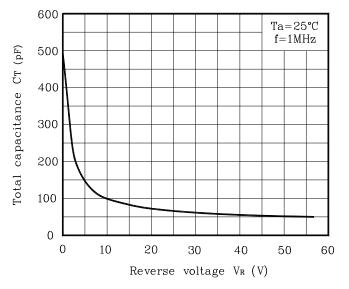
 $^{1)}$ Pulse test: t_P<380us, Duty cycle<2% $^{2)}$ Pulse test: t_P<5ms, Duty cycle<2%

³⁾ Device mounted on glass epoxy PCB (recommanderable minimum solder land)

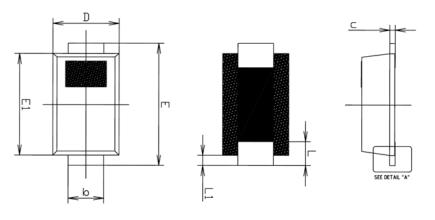


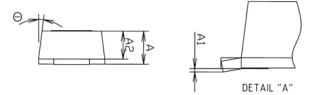
Rating and Characteristic Curves

Fig. 3 C_T - V_R



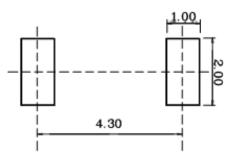
Package Outline Dimensions





SYMBOL	MILLIMETERS			NOTE
	MINIMUM	NOMINAL	MAXIMUM	NUTE
Α	1.25	1.30	1.35	
A1	0.00	-	0.10	
A2	1.05	1.10	1.15	
b	1.35	1.42	1.49	
с	0.17	0.22	0.27	
D	2.50	2.60	2.70	
E	4.60	4.80	5.00	
E1	3.90	4.00	4.10	
L	0.79	0.94	1.09	
L1	0.30	0.40	0.50	
Θ	4°	_	10°	

Recommend PCB solder land (Unit: mm)



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