



Micro Commercial Components



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BAS85

200mW
Small Signal Schottky
Barrier Diodes
30 Volts

Features

- Moisture Sensitivity Level 1
- This diode features low turn-on voltage
- The devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- This diode is also available in a DO-35 case with type designation BAT85
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

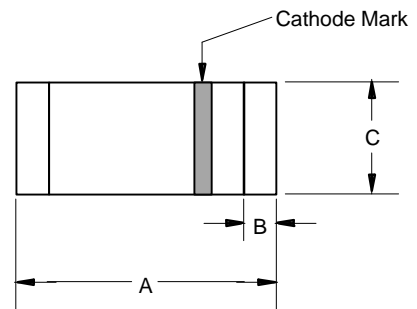
Symbol	Rating	Rating	Unit
V _R	Continuous Reverse Voltage	30	V
I _F	Forward DC Current at T _{amb} =25°C	200 ⁽²⁾	mA
I _{FM}	Repetitive Peak Forward Current T _{amb} =25°C	300 ⁽²⁾	mA
I _{FSM}	Surge Forward Current at tp<1s, T _{amb} =25°C	600 ⁽²⁾	mA
P _{tot}	Power Dissipation at T _{amb} =65°C	200 ⁽²⁾	mW
R _{JA}	Thermal Resistance Junction to Ambient Air	430 ⁽²⁾	°C/W
T _J	Junction Temperature	125	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V _{(BR)R}	Reverse Breakdown Voltage (I _R =10µAdc Pulsed)	30	---	---	V
V _F	Forward Voltage	---	---	0.24	V
	I _F =0.1mA, Pulse test t _p <300 µ s	---	---	0.32	
	I _F =1.0mA, Pulse test t _p <300 µ s	---	---	0.40	
	I _F =10mA, Pulse test t _p <300 µ s	---	0.5	---	
	I _F =30mA, Pulse test t _p <300 µ s	---	---	0.80	
I _R	Leakage Current ⁽³⁾ (V _R =25Vdc)	---	0.2	2.0	µA
C _{tot}	Capacitance (V _R =1.0V, f=1.0MHz)	---	---	10	pF
t _{rr}	Reverse Recovery Time (I _F =10mA, I _R =10mA, I _{rr} =1.0mA)	---	---	5.0	ns

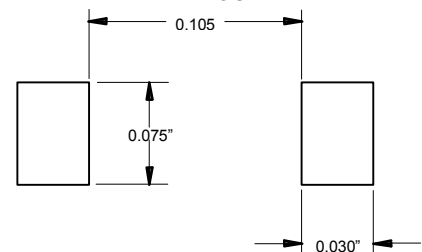
Notes:1. Lead in Glass Exemption Applied, see EU Directive Annex 5.
2. Valid provided that electrodes are kept at ambient temperature

MINIMELF



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.059	1.40	1.50	∅

SUGGESTED SOLDER PAD LAYOUT



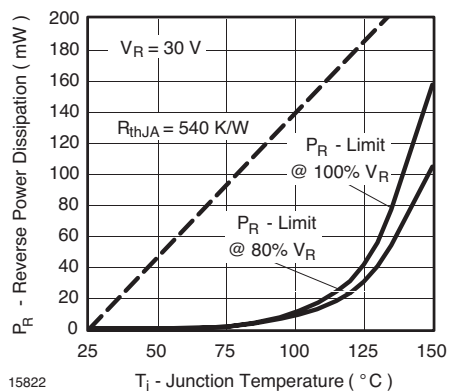


Figure 1. Max. Reverse Power Dissipation vs. Junction Temperature

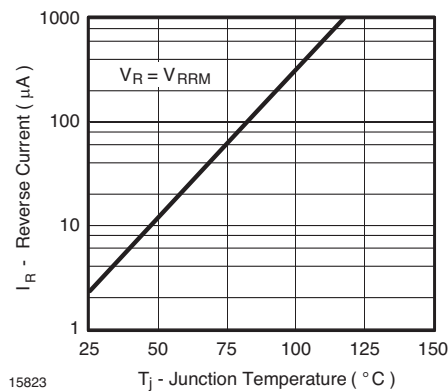


Figure 2. Reverse Current vs. Junction Temperature

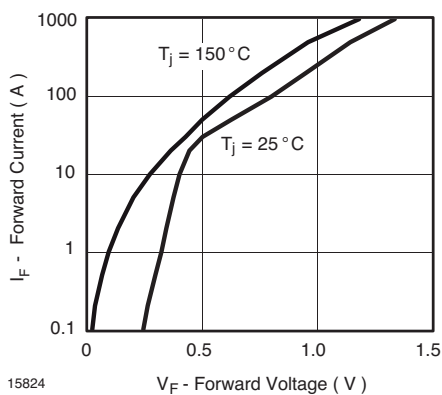


Figure 3. Forward Current vs. Forward Voltage

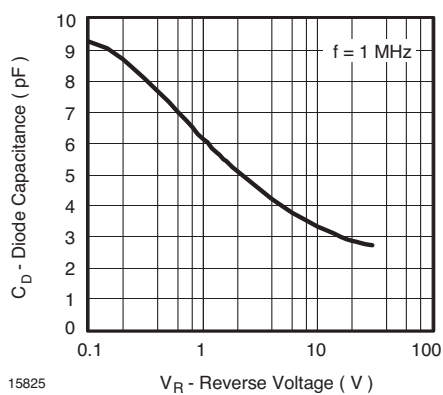


Figure 4. Diode Capacitance vs. Reverse Voltage



TM

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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