



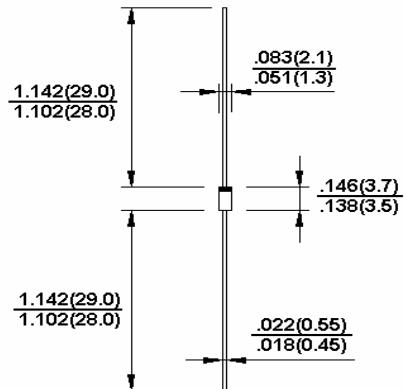
BAT42 / BAT43

200 mW Hermetically Sealed Glass Fast
Switching Schottky Barrier Diode

DO-35

Features

- ◊ Low forward voltage drop
- ◊ DO-35 package (JEDEC)
- ◊ Through-hole device type mounting
- ◊ Hermetically sealed glass
- ◊ Compression bonded construction
- ◊ All external surface are corrosion resistant and leads are readily solderable
- ◊ RoHS compliant
- ◊ Solder hot dip Tin(Sn) lead finish



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

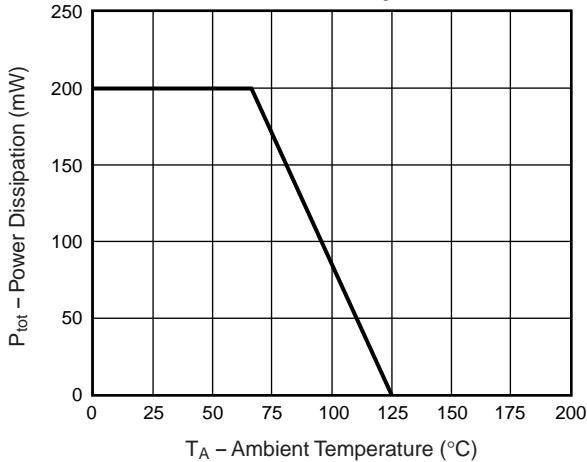
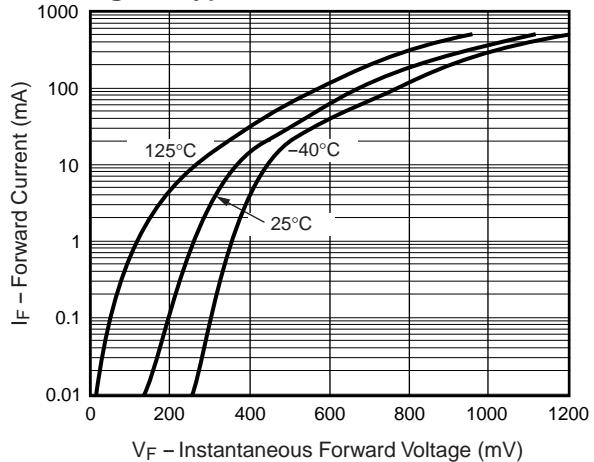
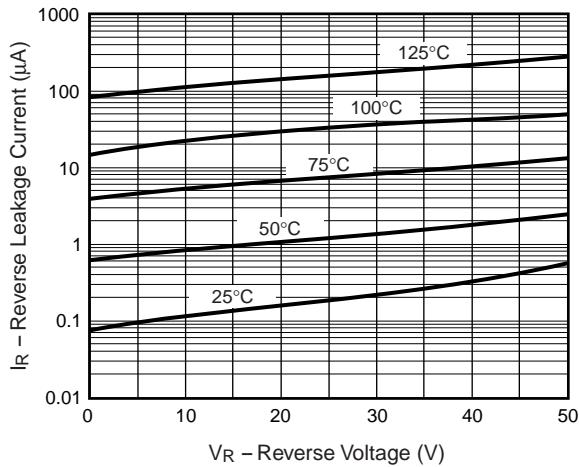
Maximum Ratings

Type Number	Symbol	BAT42/BAT43	Units
Power Dissipation	Pd	200	mW
Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum DC Blocking Voltage	V _R	30	V
Average Forward Rectified Current	I _{F(AV)}	200	mA
Peak Forward Surge Current	I _{FSM}	4.0	A
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to + 125	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Breakdown Voltage @ I _R =100uA	B _V	30		V
Forward Voltage Drop All Types	V _F			V
BAT42 IF=200mA			1.0	
BAT42 IF=10mA			0.40	
BAT42 IF= 50mA			0.65	
BAT43 IF=200mA			1.0	
BAT43 IF =2.0mA			0.33	
BAT43 IF=15mA			0.45	
Maximum Peak Reverse Current VR=25V	I _R		500	nA
Junction Capacitance VR=1V, f=1.0MHz	C _j	7(Typ.)		pF
Reverse Recovery Time (Note 1)	trr	5.0 (Typ.)		nS

Note: 1. Reverse Recovery Test Conditions: I_F=I_R=10mA, I_{RR}=1mA, R_L=100Ω.

RATINGS AND CHARACTERISTIC CURVES (BAT42 /BAT43)
Fig. 1 – Admissible Power Dissipation vs. Ambient Temperature

Fig. 2 – Typical Reverse Characteristics

Fig. 3 – Typical Reverse Characteristics

Fig. 4 – Typical Capacitance vs. Reverse Applied Voltage
