

Schottky Diode

DO-35



RoHS
Compliant



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
- Solder hot dip tin(Sn) lead finish

Maximum Ratings and Thermal Characteristics

Rating at 25°C Ambient Temperature Unless Otherwise Specified.

Type Number	Symbol	BAT42	Units
Power Dissipation	P_d	200	mW
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Maximum DC Blocking Voltage	V_R		
Average Forward Rectified Current	$I_F (AV)$	200	mA
Peak Forward Surge Current	I_{FSM}	4	A
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +125	°C

Electrical Characteristics

Type Number	Symbol	Min.	Max.	Units
Breakdown Voltage at $I_R = 100\mu A$	B_V	30		V
Forward Voltage Drop All Types BAT42 $I_F = 200mA$ BAT42 $I_F = 10mA$ BAT42 $I_F = 50mA$	V_F	-	1 0.4 0.65	
Maximum Peak Reverse Current $V_R = 25V$	I_R	-	500	nA
Junction Capacitance $V_R = 1V, f = 1MHz$	C_j	7 (Typical)		pF
Reverse Recovery Time (Note 1)	t_{rr}	5 (Typical)		nS

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

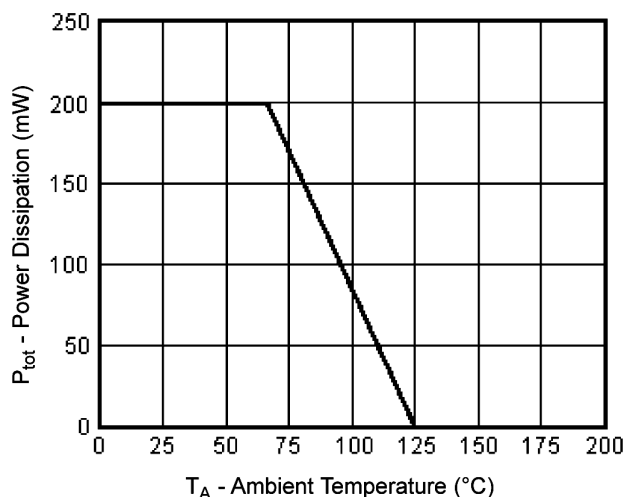
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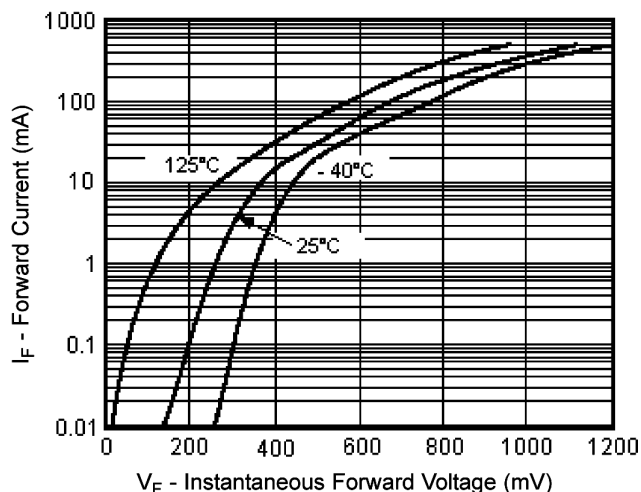


Ratings and Characteristic Curves (BAT42)

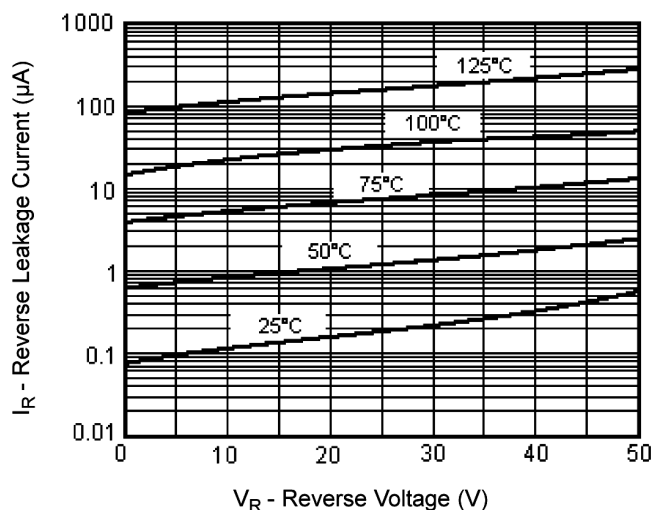
Admissible Power Dissipation
vs. Ambient Temperature



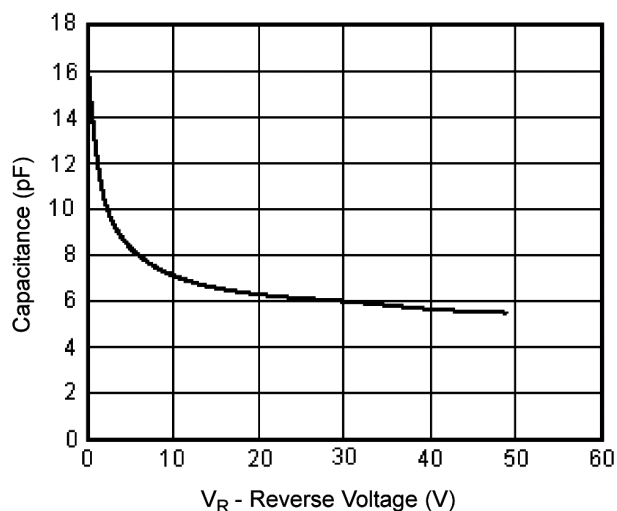
Typical Reverse Characteristics



Typical Reverse Characteristics



Typical Capacitance
vs. Reverse Applied Voltage

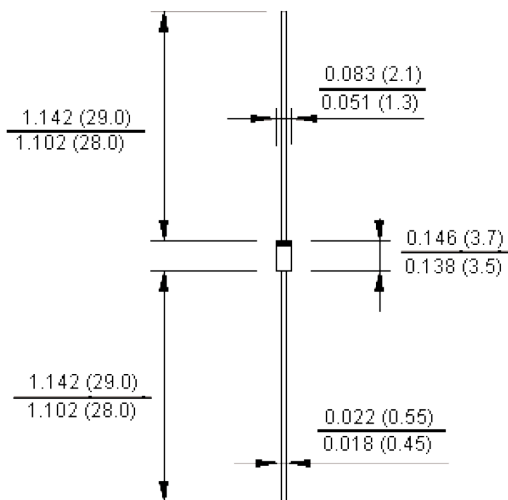


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Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Schottky, DO-35	BAT42

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