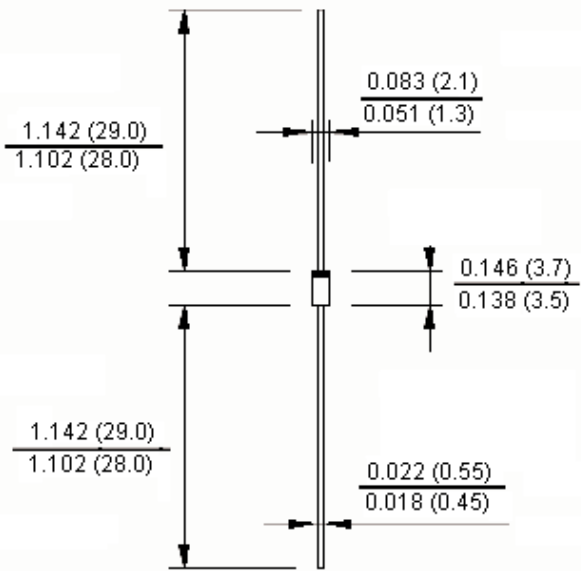


Features:

- 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.



DO-35



Dimensions : Inches (Millimetres)

Maximum Ratings and Thermal Characteristics

Rating at 25°C Ambient Temperature Unless Otherwise Specified.

Maximum Ratings

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}	4.0	A
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +125	°C

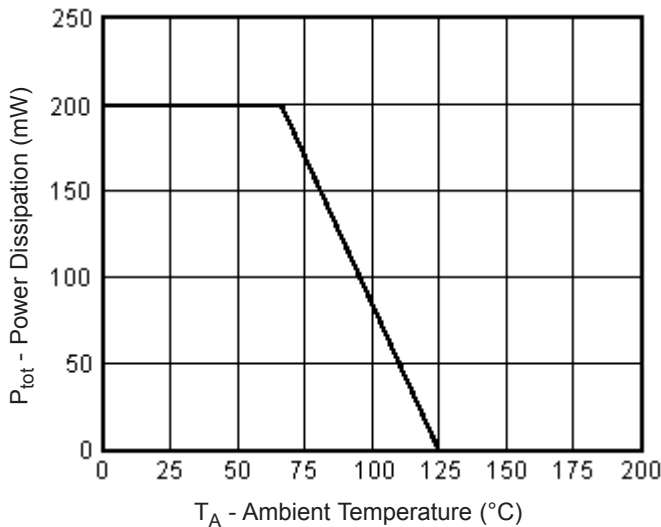
Electrical Characteristics

Type Number	Symbol	Minimum	Maximum	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 0.40 0.65	
Maximum Peak Reverse Current $V_R = 25V$	I_R	-	500	
Junction Capacitance $V_R = 1V, f = 1.0MHz$	C_j	7 (Typical)		pF
Reverse Recovery Time (Note 1)	t_{rr}	5.0 (Typical)		nS

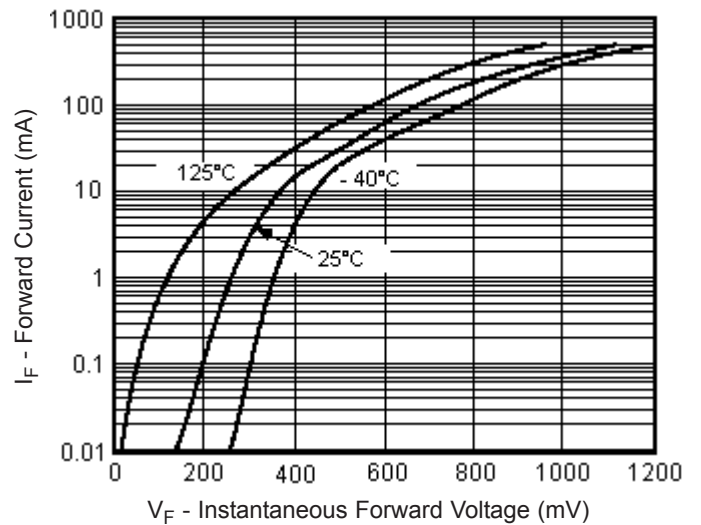
Note: 1. Reverse Recovery Test Conditions : $I_F = I_R = 10mA, I_{RR} = 1mA, R_L = 100\Omega$.

Ratings and Characteristic Curves (BAT42)

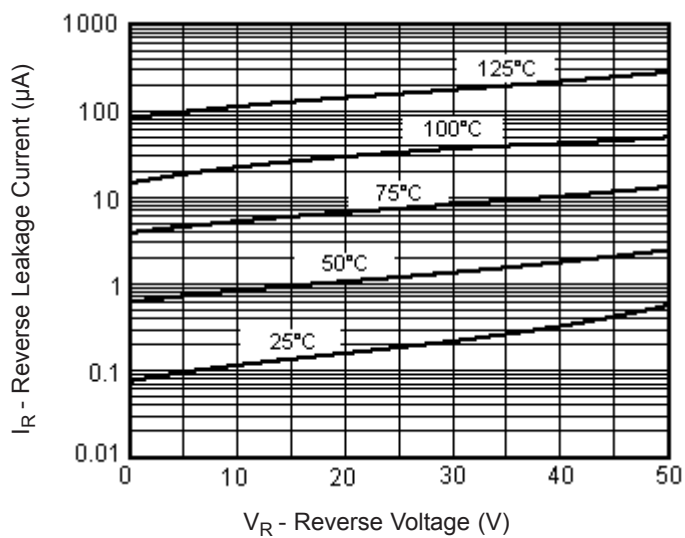
Admissible Power Dissipation vs. Ambient Temperature



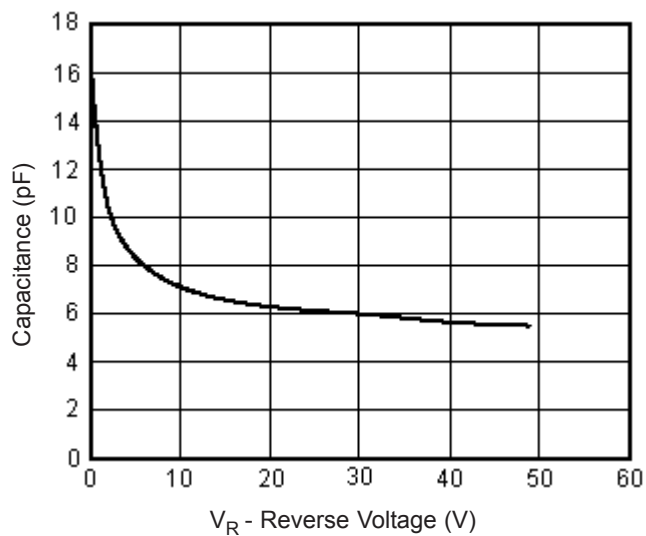
Typical Reverse Characteristics



Typical Reverse Characteristics



Typical Capacitance vs. Reverse Applied Voltage



Part Number Table

Description	Part Number
Diode, Schottky, DO-35	BAT42

Notes:

International Sales Offices:

	AUSTRALIA – Farnell Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225		FINLAND – Farnell Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411		ITALY – Farnell Tel No: ++ 39 02 93 995 200 Fax No: ++ 39 02 93 995 300		SPAIN – Farnell Tel No: 901 20 20 80 Fax No: 901 20 20 90
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