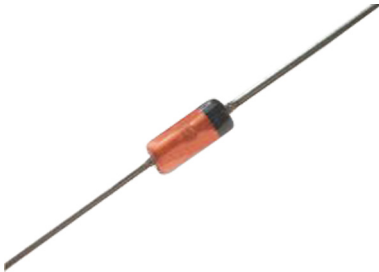


# Schottky Diode

## 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 <sub>d</sub>	200	mW
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Maximum DC Blocking Voltage	V <sub>R</sub>		
Average Forward Rectified Current	I <sub>F(AV)</sub>	200	mA
Peak Forward Surge Current	I <sub>FSM</sub>	4	A
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +125	°C

### Electrical Characteristics

Type Number	Symbol	Min.	Max.	Units
Breakdown Voltage at I <sub>R</sub> = 100µA	B <sub>V</sub>	30		V
Forward Voltage Drop All Types <b>BAT42</b> I <sub>F</sub> =200mA <b>BAT42</b> I <sub>F</sub> =10mA <b>BAT42</b> I <sub>F</sub> =50mA	V <sub>F</sub>	-	1 0.4 0.65	
Maximum Peak Reverse Current V <sub>R</sub> =25V	I <sub>R</sub>	-	500	nA
Junction Capacitance V <sub>R</sub> = 1V, f = 1MHz	C <sub>j</sub>	7 (Typical)		pF
Reverse Recovery Time (Note 1)	t <sub>rr</sub>	5 (Typical)		nS

Note: 1. Reverse Recovery Test Conditions : I<sub>F</sub> = I<sub>R</sub> = 10mA, I<sub>RR</sub> = 1mA, R<sub>L</sub> = 100Ω.

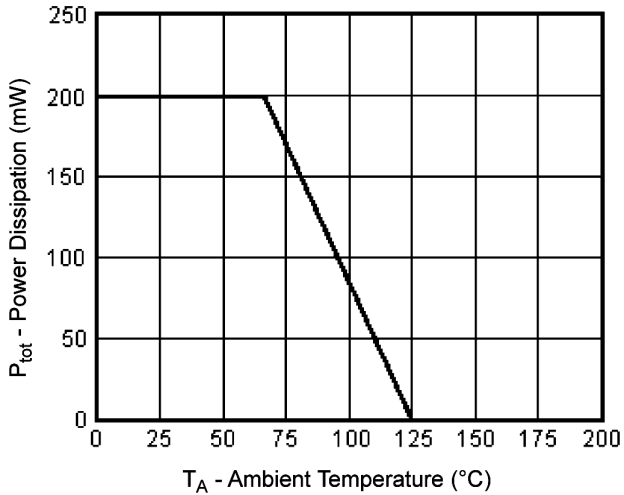
# Schottky Diode

## DO-35

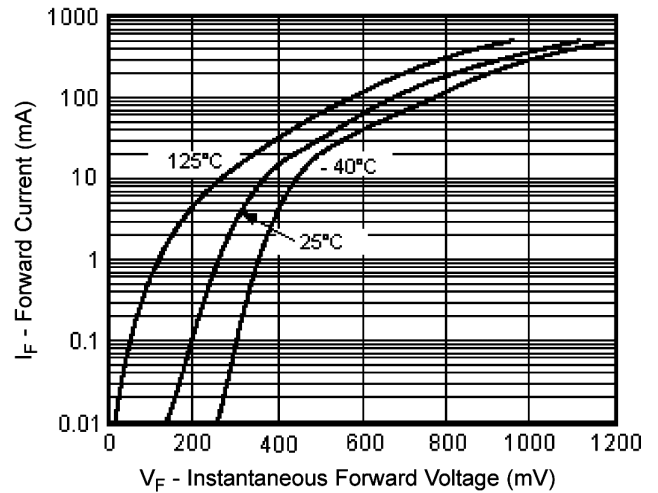


### Ratings and Characteristic Curves (BAT42)

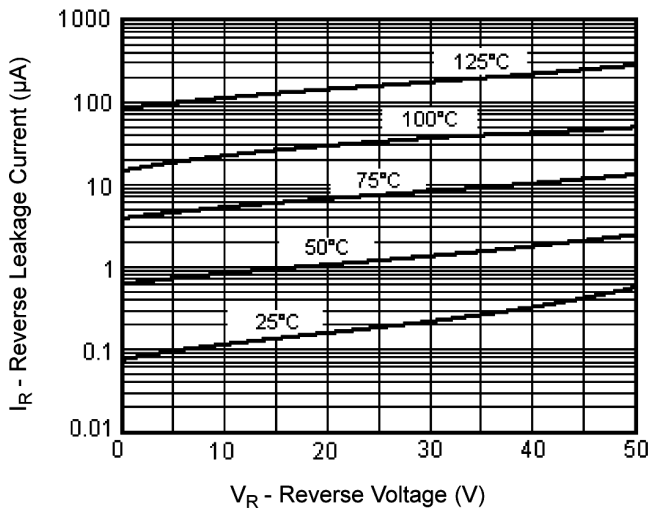
Admissible Power Dissipation vs. Ambient Temperature



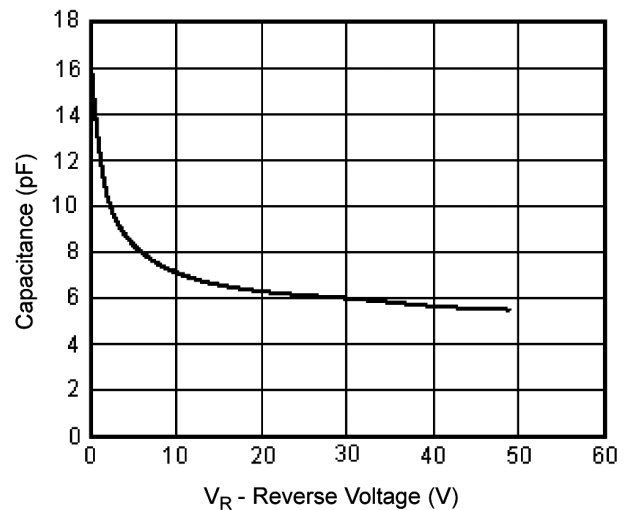
Typical Reverse Characteristics



Typical Reverse Characteristics



Typical Capacitance vs. Reverse Applied Voltage

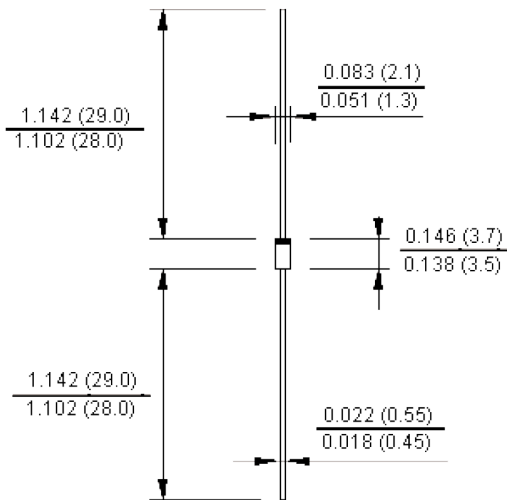


# Schottky Diode

## DO-35



### DO-35



Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number
Diode, Schottky, DO-35	BAT42

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