



**Changshu Talent
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**BAT42
BAT43**

Features

- Moisture Sensitivity Level 1
- Low Forward Voltage Drop.
- Compression Bond Construction
- For General Purpose Application
- Marking : Cathode band and type number
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

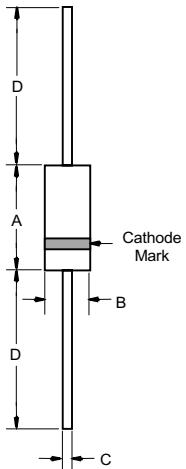
- Operating Temperature: -55°C to +125°C
- Storage Temperature: 55°C to +150°C
- Maximum Thermal Resistance; 300°C/W Junction To Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

Peak Reverse Voltage	V_{RM}	30V	
Forward continuous Current	I_F	200mA	$T_A = 25^\circ C$
Power Dissipation	P_{TOT}	200mW	$T_A = 65^\circ C$
Junction Temperature	T_J	125°C	
Peak Forward Surge Current	I_{FSM}	4.0A	$T_p < 10ms, T_A = 25^\circ C$
Maximum Instantaneous Forward Voltage BAT42	V_F	1.0V 0.65V 0.4V 1.0V 0.45V 0.33V	$I_F = 200mA;$ $I_F = 50mA$ $I_F = 10mA$ $I_F = 200mA$ $I_F = 15mA$ $I_F = 2mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5μA 100μA	$V_R=25Volts$ $T_J = 25^\circ C$ $T_J = 100^\circ C$
Typical Junction Capacitance	C_J	7pF	Measured at 1.0MHz, $V_R=25V$
Reverse Recovery Time	T_{rr}	5nS	$I_F=10mA$ $V_R = 6V$ $R_L=100\Omega$

**200 Milliamp Small
Signal Schottky Diode
30 Volt**

DO-35



DIM	DIMENSIONS				NOTE
	INCHES	MIN	MAX	MM	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

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Figure 1. Forward current versus forward voltage at different temperatures(typical values)

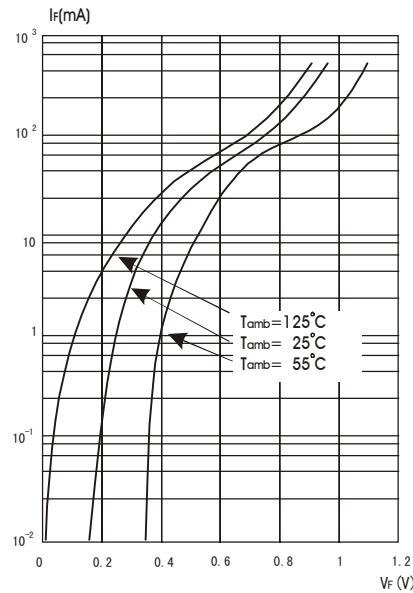


Figure 2. Forward current versus forward voltage (typical values)

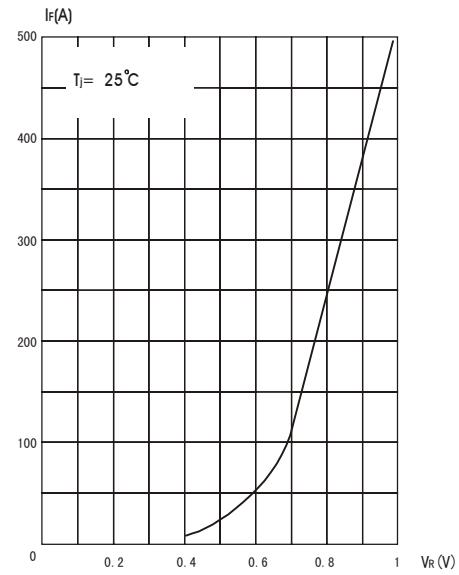
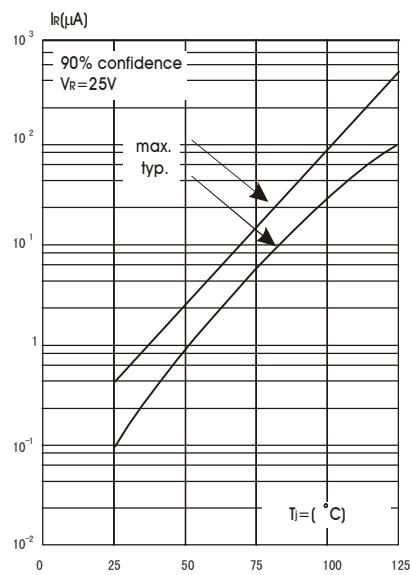


Figure 3.Reverse current versus ambient temperature(typical values)



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Figure 4.Reverse current versus continuous
Reverse voltage(typical values)

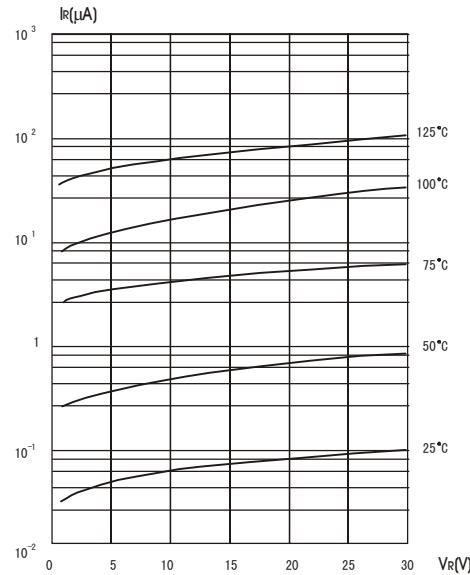


Figure 5.Capacitance C versus reverse applied
voltage V_R (typical values)

