

VOLTAGE RANGE: 100V
CURRENT: 0.15 A

Features

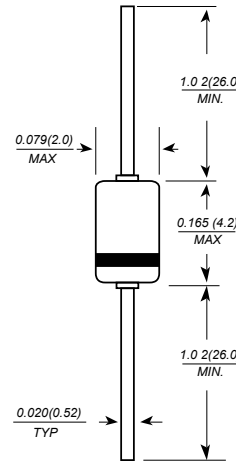
- High Reverse Breakdown Voltage
- Low Turn-On Voltage
- Guard Ring Construction for Transient Protection

Mechanical Data

- Case: DO-35, glass case
- Polarity: Color band denotes cathode
- Weight: 0.004 ounces, 0.13 grams



DO-35(GLASS)



Dimensions in millimeters

Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	I_F	150 ⁽¹⁾	mA
Repetitive Peak Forward Current at $t_p < 1$ s,	I_{FRM}	350 ⁽¹⁾	mA
Forward Surge Current at $t_p < 10$ ms,	I_{FSM}	750 ⁽¹⁾	mA
Power Dissipation, $T_a = 65$ °C	P_D	150 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3 ⁽¹⁾	°C/W
Junction Temperature	T_J	125	°C
Ambient Operating Temperature Range	T_a	-65 to + 125	°C
Storage temperature range	T_s	-65 to + 150	°C

Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature.

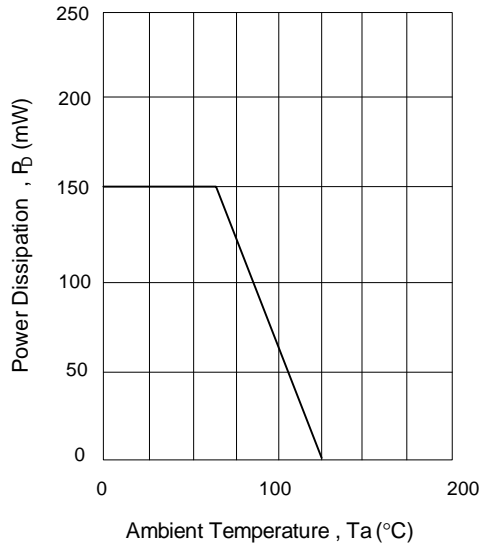
Electrical Characteristics ($T_J = 25$ °C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100 \mu A$ (pulsed)	100	-	-	V
Reverse Current	I_R	$V_R = 10$ V	-	-	0.8	μA
Pulse Test $t_p < 300 \mu s$, $\delta < 2\%$		$V_R = 50$ V	-	-	2.0	
		$V_R = 75$ V	-	-	5.0	
Forward Voltage	V_F	$I_F = 10$ mA	-	-	0.45	V
Pulse Test $t_p < 300 \mu s$, $\delta < 2\%$		$I_F = 250$ mA	-	-	1.00	
Diode Capacitance	Cd	$V_R = 1$ V, $f = 1$ MHz	-	6	-	pF

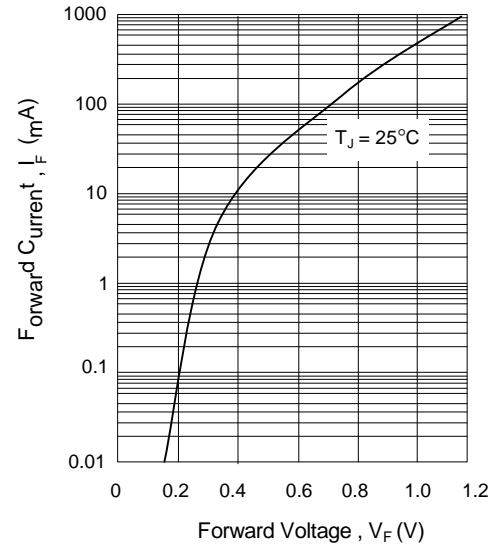


RATING AND CHARACTERISTIC CURVES (BAT46)

Admissible Power Dissipation vs. Ambient Temperature



Typical Forward Characteristics



Typical Reverse Characteristics

