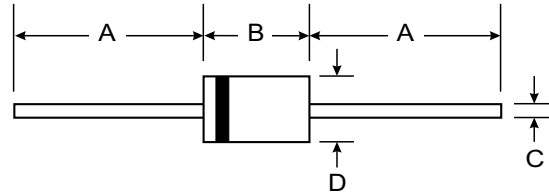


### Features

- High temperature metallurgically bonded construction
- Sintered glass cavity free junction
- Capability of meeting environmental standard of MIL-S-19500
- High temperature soldering guaranteed  
350°C /10sec/0.375"lead length at 5 lbs tension
- Operate at  $T_a = 55^\circ\text{C}$  with no thermal run away
- Typical  $I_r < 0.1\mu\text{A}$



### Mechanical Data

- Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C
- Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:color band denotes cathode
- Mounting position:any

DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

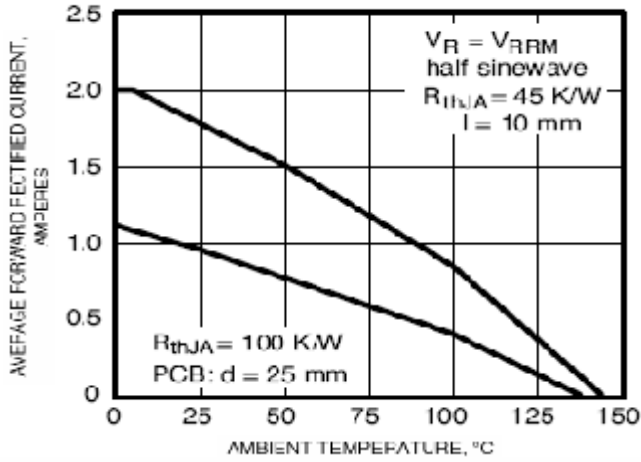
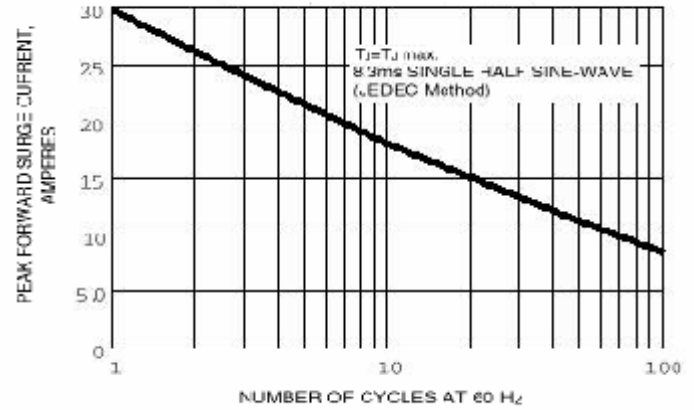
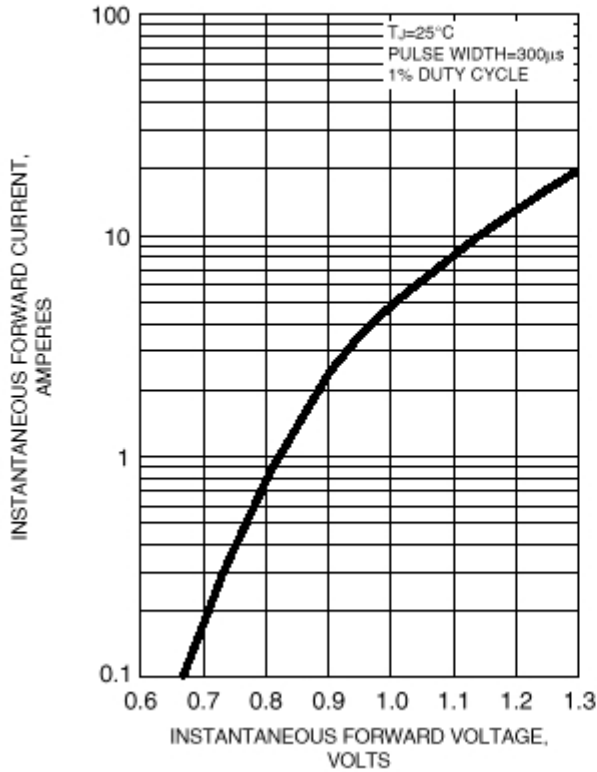
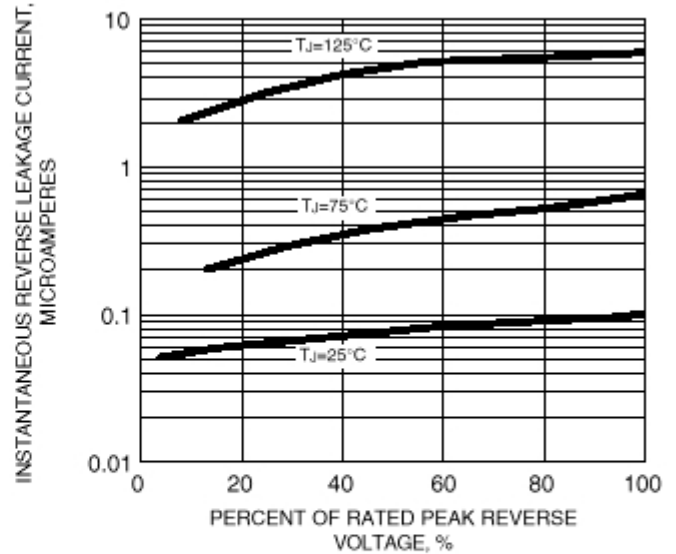
### Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

	SYMBOL	BY448GP	units
Maximum Recurrent Peak Reverse Voltage	$V_{rrm}$	1650	V
Maximum RMS Voltage	$V_{rms}$	1150	V
Maximum DC blocking Voltage	$V_{dc}$	1650	V
Maximum Average Forward Rectified Current 3/8"lead length at $T_a = 55^\circ\text{C}$	$I_{f(av)}$	2.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	$I_{fsm}$	30.0	A
Maximum Instantaneous Forward Voltage at 3.0A	$V_f$	1.60	V
Maximum full load reverse current full cycle Average at $55^\circ\text{C}$	$I_r(av)$	100.0	$\mu\text{A}$
Maximum DC Reverse Current at rated DC blocking voltage	$I_r$	$T_a = 25^\circ\text{C}$	$\mu\text{A}$
		$T_a = 150^\circ\text{C}$	$\mu\text{A}$
Typical Reverse Recovery Time (Note 1)	$T_{rr}$	1000	nS
Typical Thermal Resistance (Note 2)	$R_{th(ja)}$	100	K/W
Storage and Operating Junction Temperature	$T_{stg}, T_j$	-65 to +175	$^\circ\text{C}$

Note:

1. Reverse Recovery Condition  $I_f = 0.5\text{A}$ ,  $I_r = 1.0\text{A}$ ,  $I_{rr} = 0.25\text{A}$
2. Thermal Resistance from Junction to Ambient on PC board with spacing 25mm

**FIG. 1 - FORWARD CURRENT DERATING CURVE**

**FIG. 2 - MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT**

**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**

**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS**

**FIG. 5 - TYPICAL JUNCTION CAPACITANCE**
