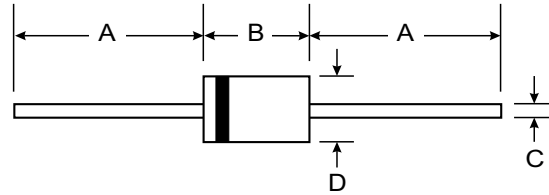


Features

- 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		

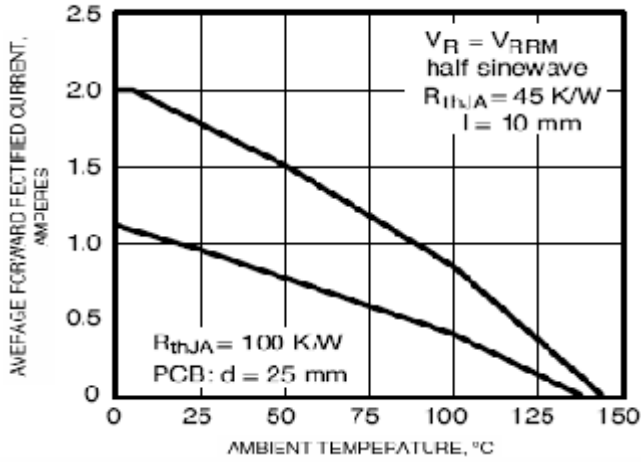
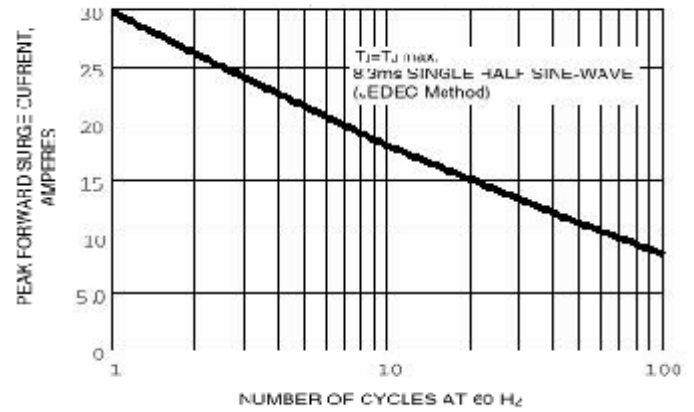
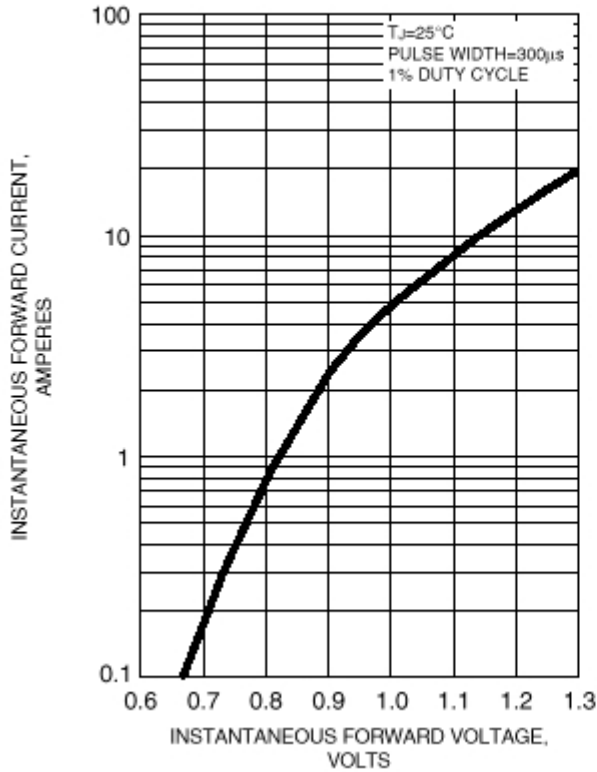
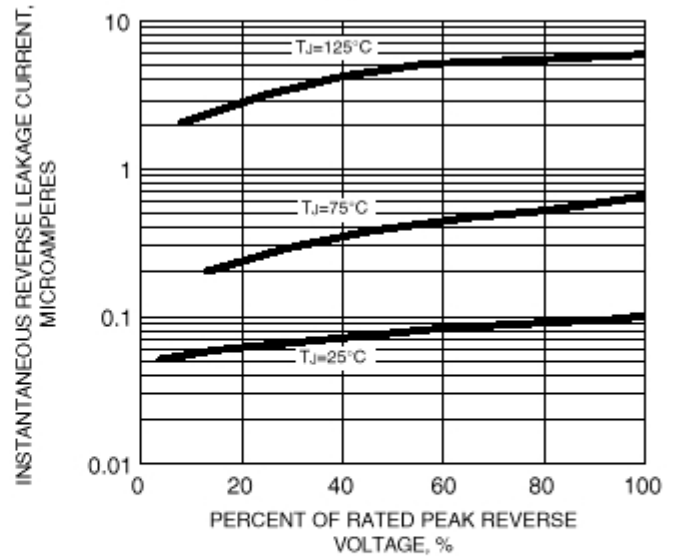
Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

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°C	$I_r(av)$	100.0	μA
Maximum DC Reverse Current at rated DC blocking voltage	I_r	5.0 150.0	μA μA
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
