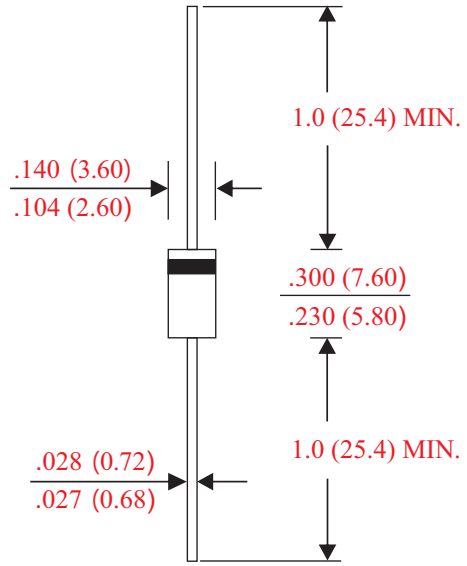
Leiditech

BY448GP

1.5A Clamper/Damping diode

OUTLINE

DO-15



Dimensions in inches and (millimeters)

FEATURES

- Super rectifier structure for high reliability application.
- Glass passivated junction.
- Low forward voltage drop.
- High forward surge capability.
- Low Reverse Current.

MECHANICAL DATA

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable to MIL-STD-202G,Method 208
- Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.015 ounce, 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Single, half wave, 60Hzm resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbols	BY448GP	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1650	Volts
Maximum RMS Voltage	V_{RMS}	1150	Volts
Maximum DC Blocking Voltage	V_{DC}	1650	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T_A=50°C	$I_{(AV)}$	1.5	Amp
Peak Forward surge current 8.3ms single half-sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	40	Amp
Maximum Forward Voltage at 1.5A DC	V_F	1.60	Volts
Maximum Reverse Current at Rated DC Blocking Voltage at TA= 25°C	I_R	5.0	uAmp
at TA= 100°C		100	
Typical Junction Capacitance (Note 1)	C_J	35	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55	°C/W
Maximum Reverse Recovery Time (Note 3)	T_{RR}	1000	nS
Operating Junction Temperature Range	T_J	-55 ~ +175	°C
Storage Temperature Range	T_{STG}	-55 ~ +175	°C

NOTE :
1.Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2.Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted
3.Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, I_{RR}=0.25A.

RATINGS AND CHARACTERISTIC CURVES

(T_A = 25 °C unless otherwise noted)

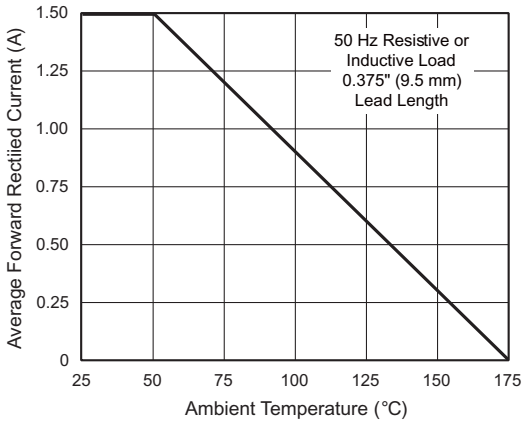


Fig. 1 - Forward Current Derating Curve

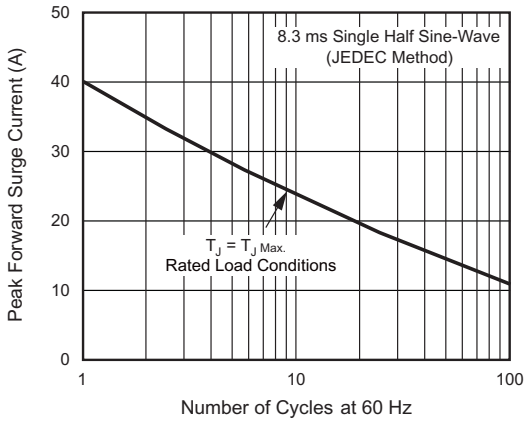


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

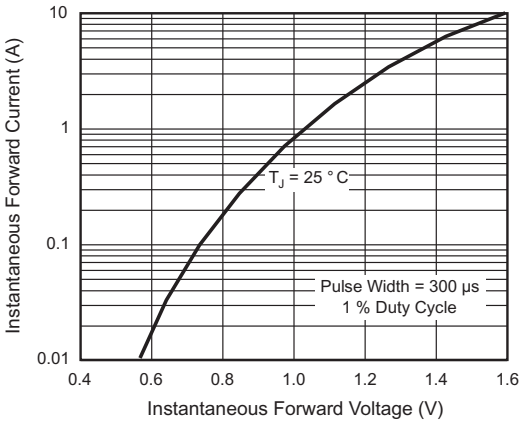


Fig. 3 - Typical Instantaneous Forward Characteristics

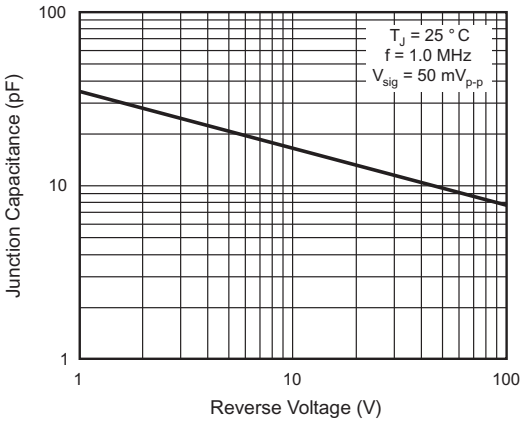


Fig. 4 - Typical Junction Capacitance

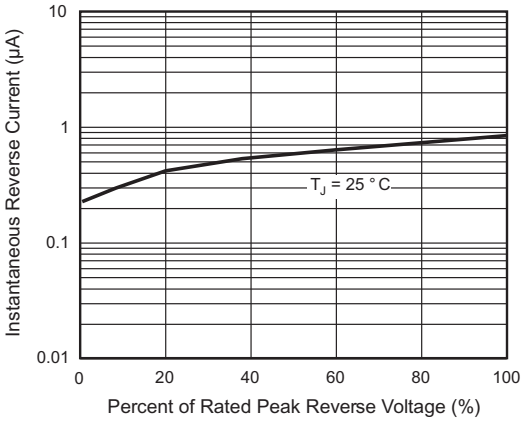


Fig. 5 - Typical Reverse Characteristics

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