LD06-E THRU LD10-E

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT FLAT BRIDGE RECTIFIER

VOLTAGE: 600V to 1000V **CURRENT:0.6A**

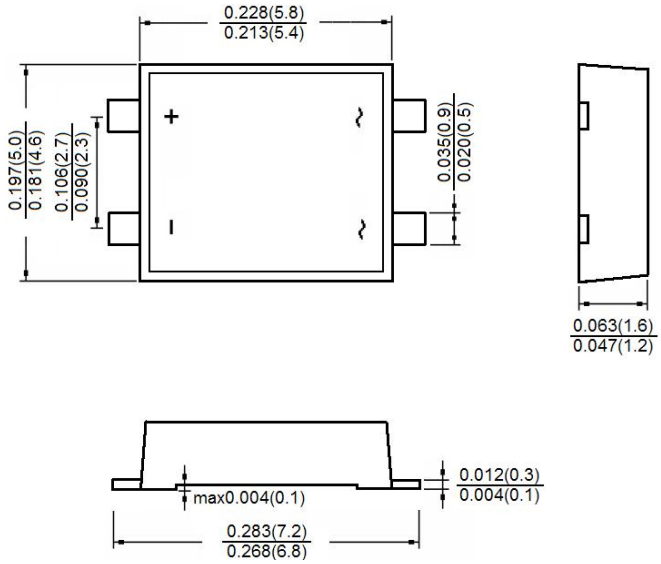
FEATURE

Low profile space
Ideal for automated placement
Glass passivated chip junction
Low forward voltage drop
Low leakage current
High forward surge capability
High temperature soldering :260℃/10 seconds
Halogen Free

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case:UL-94 Class V-0 recognized Halogen Free Epoxy
Polarity: Polarity symbol marked on body

LDF



Dimensions in inches and (millimeters)

MAXIMUM ATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	LD06-E	LD08-E	LD10-E	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	800	1000	V
Maximum RMS Voltage	Vrms	420	560	700	V
Maximum DC blocking Voltage	VDC	600	800	1000	V
Maximum Average Forward Rectified Current at Ta =40°C	If(av)	0.6			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	20.0			A
Maximum Instantaneous Forward Voltage at forward current 0.3A	Vf	1.0			V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	5.0 100.0			μA
Typical Thermal resistance (Note1)	Rth(ja) Rth(jl)	70 20			°C/W
Typical Junction Capacitance (Note2)	Cj	13.0			pF
Storage and Operating Junction Temperature Range	Tstg, Tj	-55 to +150			°C

Note:

1. On aluminum substrate P.C.B. with an area of 0.8"×0.8"(20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad
2. Measured at 1.0 MHz and applied voltage of 4.0 volt

RATINGS AND CHARACTERISTIC CURVES LD06-E THRU LD10-E

Fig.1 Derating Curve For Output Rectified Current

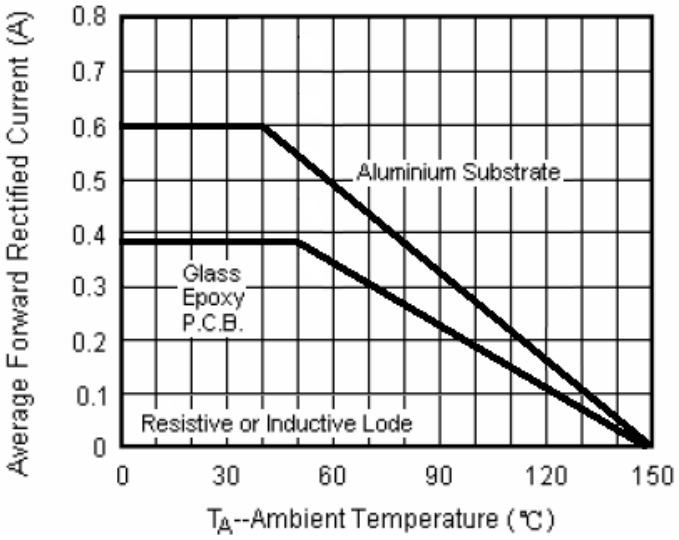


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Leg

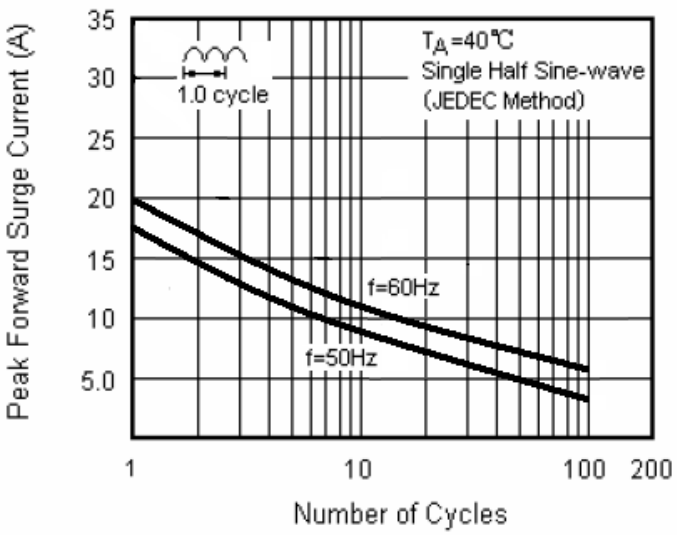


Fig.3 Typical Forward Voltage Characteristics Per Leg

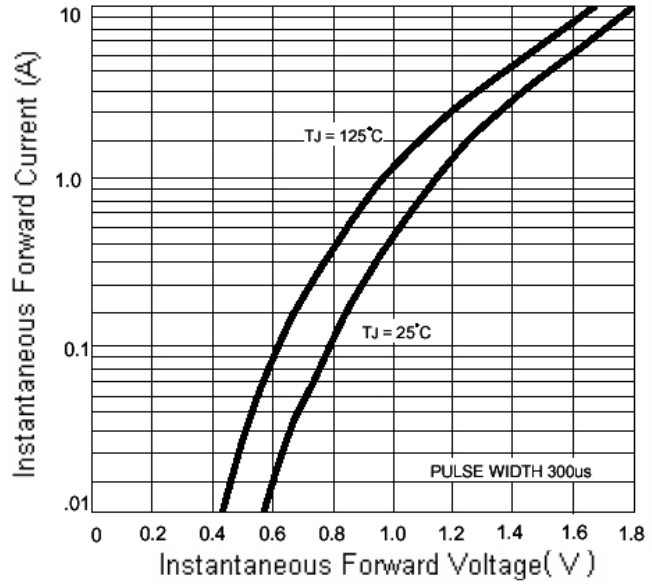


Fig.4 Typical Reverse Leakage Characteristics Per Leg

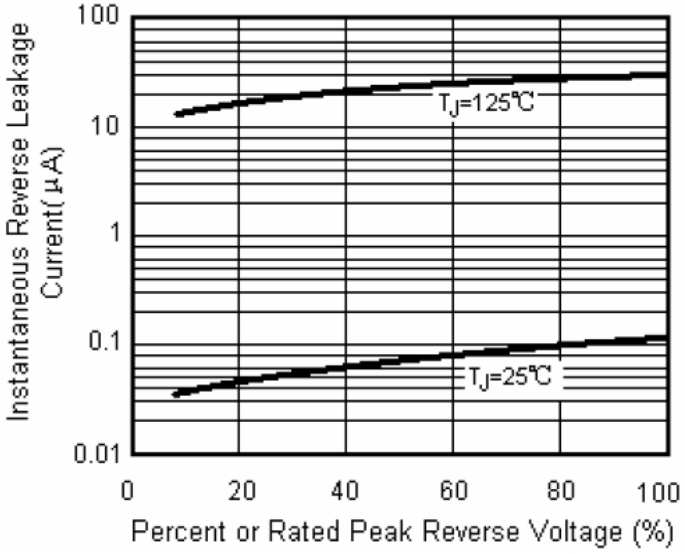


Fig.5 Typical Junction Capacitance Per Leg