ADS10

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT FLAT BRIDGE RECTIFIER

VOLTAGE: 1000V **CURRENT: 1.0A**

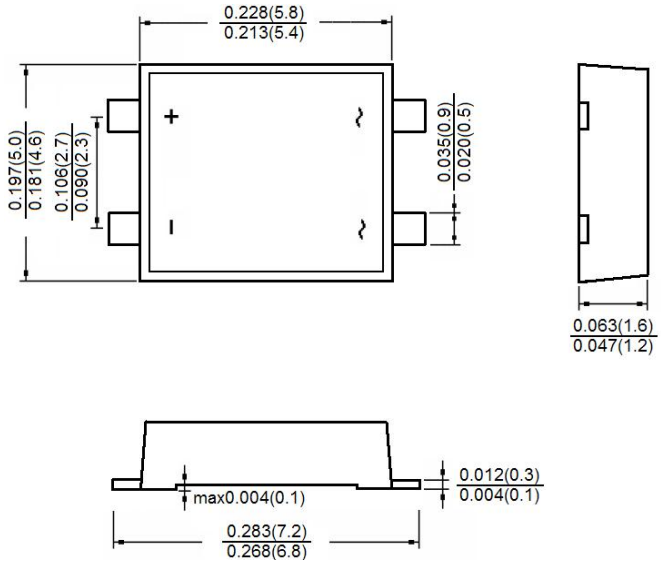
FEATURE

Ideal for printed circuit board
Glass passivated chip
Reliable low cost construction utilizing molded plastic technique
Small size, simple installation
High temperature soldering guaranteed: 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
Marking: ADS10

LDF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	Symbol	ADS10	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1000	V
Maximum RMS Voltage	Vrms	700	V
Maximum DC blocking Voltage	VDC	1000	V
Maximum Average Forward Rectified Current — on aluminum substrate on glass-epoxy P.C.B.	If(av)	1.0 0.8	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30	A
Rating for fusing(t＜8.3ms)	I^2t	3.74	A^2sec
Maximum Instantaneous Forward Voltage at Forward Current 0.4A	Vf	0.95	V
Maximum DC Reverse Current — Ta =25℃ at rated DC blocking voltage — Ta =110℃	Ir	5.0 100.0	μA
Typical Thermal resistance (Note1)	Rth(ja) Rth(jl)	70 20	℃/W
Storage and Operating Junction Temperature Range	Tstg, Tj	-55 to +150	℃

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

Fig.1 Derating Curve For Output Rectified Current

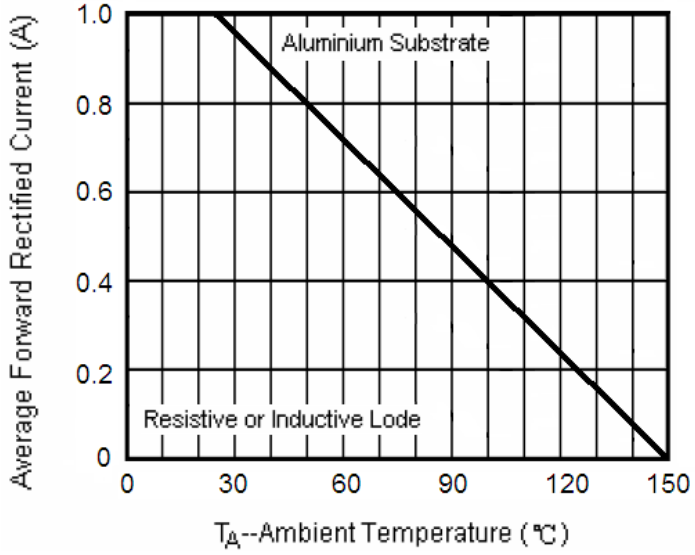


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Leg

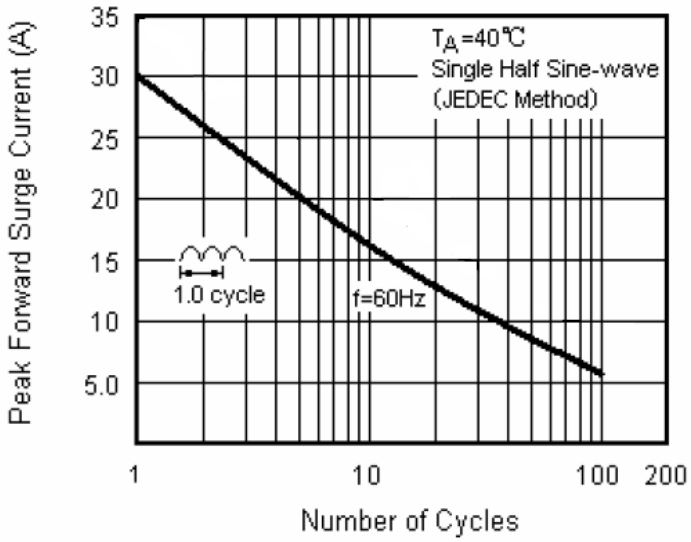


Fig.3 Typical Forward Voltage Characteristics Per Leg

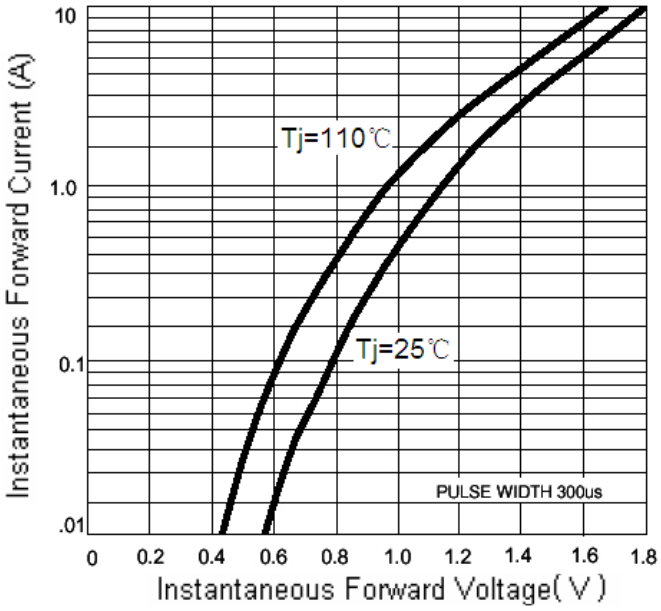


Fig.4 Typical Reverse Leakage Characteristics Per Leg

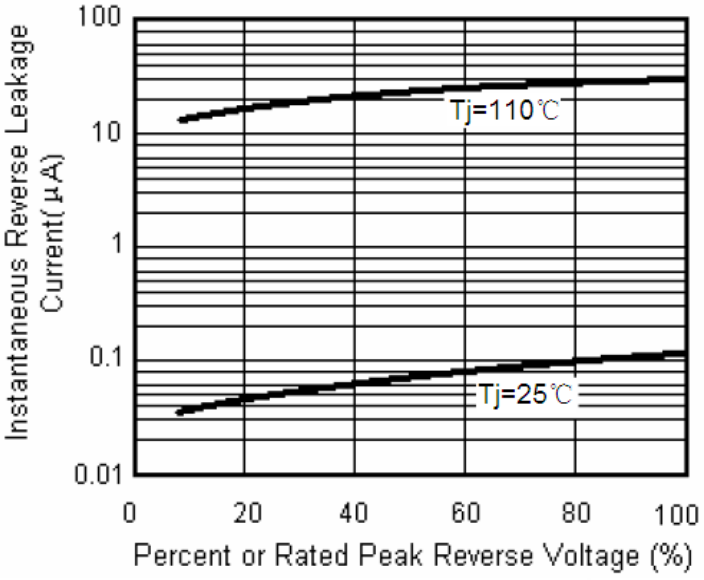


Fig.5 Typical Junction Capacitance Per Leg