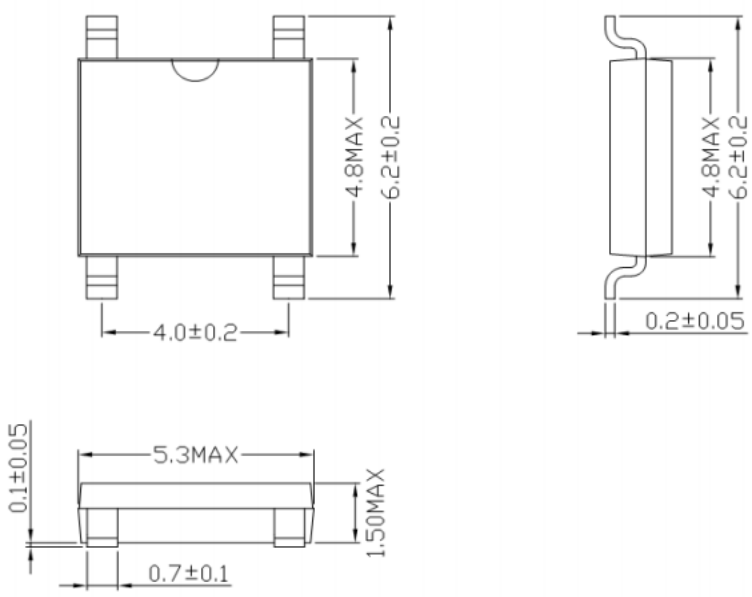
ABS2-ABS10

SURFACE MOUNT BRIDGE RECTIFIERS

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- HIgh Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0



Mechanical Data

- Case:SOPA-4,Mold Plastic
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number

Maximum Ratings and Electrical Characteristics @TA=25℃ unless otherwise specified

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

Parameter	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	800	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average forward output rectified current on glass-eposy P.C.B on aluminum substrate	I(AV)	0.8 1.0					A
Peak forward surge current 8.3ms single sine-wave superimposed on rated load(JEDEC Method)	IFSM	30					A
Maximum instantaneous forward voltage drop per diode @0.4A	VF	1.0					V
Maximum DC reverse current at TA=25℃ rated DC blocking voltage per leg TA=125℃	IR	5.0 500					uA
Typical thermal resistance per leg (Note 1)	RθJA RθJL	80 25					℃/W
Operating junction temperature range	TJ	-55 to +150					℃
storage temperature range	Tstg	-55 to +150					℃

Note:
1.Device mounted P.C.B with 0.47x0.47''(12mmx12mm) Copper Pads.

Characteristic Curves (T_A=25 unless otherwise noted)

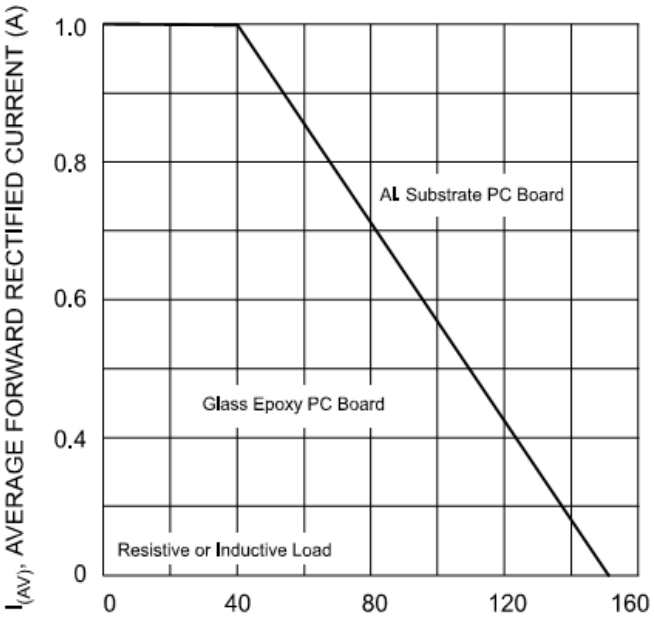


Fig. 1 Output Current Derating Curve

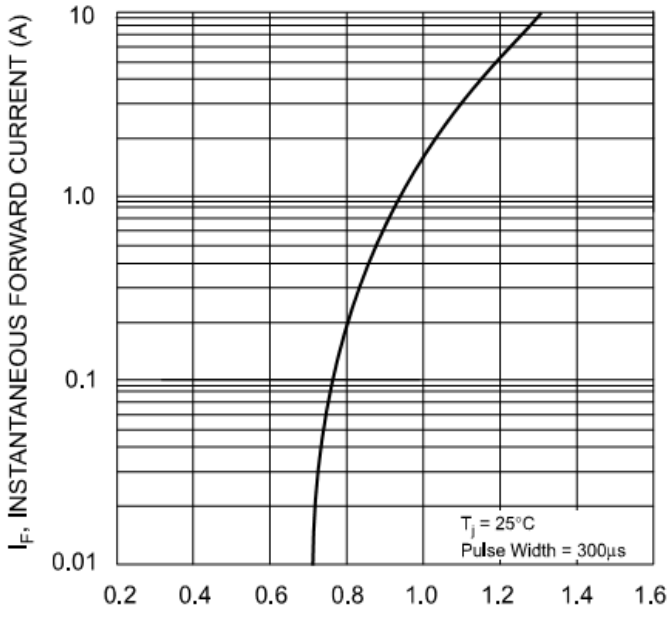


Fig. 2 Typical Forward Characteristics (per leg)

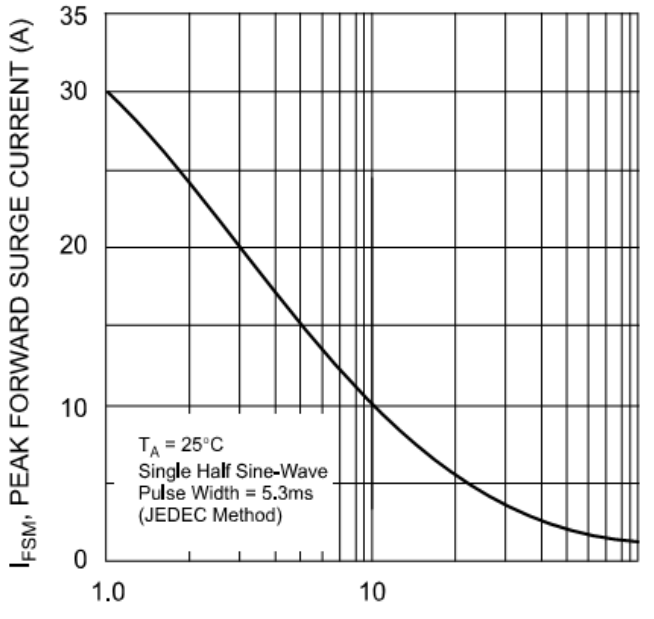


Fig. 3 Maximum Peak Forward Surge Current (per leg)

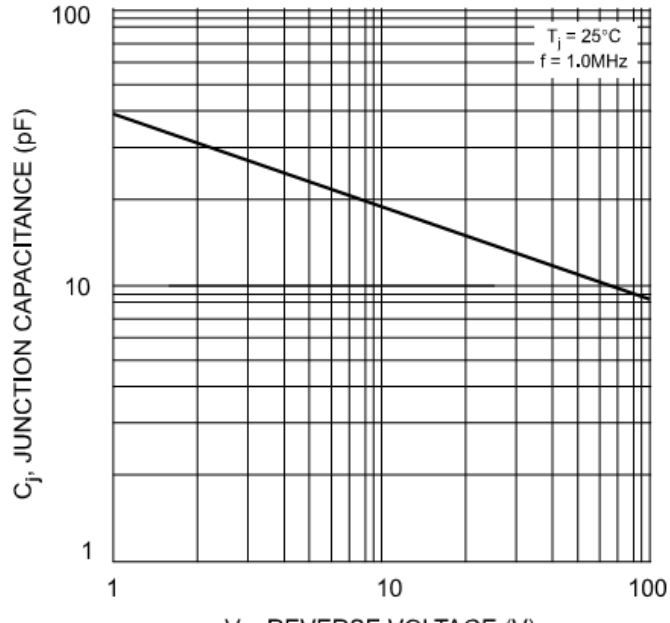


Fig. 4 Typical Junction Capacitance