

Features

- Glass passivated junction chip •
- Low reverse leakage
- High forward surge current capability
- High Surge Current Capability •
- The plastic package carries Underwriters Laboratory • Flammability Classification 94V-0
- High temperature soldering guaranteed 250 C/10 seconds at terminals

Mechanical Data

- Case:ABS, Molded Plastic •
- Terminals: Solder plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any



Major Ratings and Characteristics

I _{F(AV)}	0.8A,1.0A				
V _{RRM}	200 V to 1000 V				
I _{FSM}	35 A				
I _R	5 μΑ				
V _F	1.00V				
T _j max.	150 °C				

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Items	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Peak repetitive reverse voltage DC blocking voltage	V _{RRM} V _{DC}	200	400	600	800	1000	V
Maximum RMS voltage	V _{R(RMS)}	140	280	420	560	700	V
Maximum average forward rectified current at T_A (See Fig.1)	I _{F(AV)}	0.8 ⁽¹⁾ 1.0 ⁽²⁾					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	35			А		
Thermal resistance from junction to lead	$R_{ ext{ hetaJL}}$	25					°C/W
Thermal resistance from junction to ambient ⁽¹⁾	$R_{ ext{ hetaJA}}$	80			°C/W		
Thermal resistance from junction to ambient ⁽²⁾	$R_{ extsf{ heta}JA}$	62.5				°C/W	
Operating junction temperature range	TJ	T _J –55 to +150			°C		
Storage temperature range	T _{STG} –55 to +150		50		°C		

Note 1: Mounted on glass epoxy PC board with 1.3mm² solder pad.

Note 2: Mounted on aluminum substrate PC board with 1.3mm² solder pad.

Electrical Characteristics (TA = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	ABS02~ABS10	Unit		
Instantaneous forward voltage per leg	I _F =0.5A ⁽³⁾		I _F =0.5A ⁽³⁾		V_{F}	1.0	V
Reverse current	V _R =V _{DC}	T_A=25℃	I _R	5.0			
		T _A =125℃		500	μΑ		

Note: 3.Pulse test:300µs pulse width,1% duty cycle.

ABS2~ABS10 **Glass Passivated Bridge Rectifier**



Characteristic Curves (TA=25 °C unless otherwise noted)





Fig.3 Typical Instantaneous Forward Characteristics



Fig.4 TypicI Reverse Leakage Characteristics



Percent Reted Peak Reverse Voltage(%)



Package Outline





Dimensions in inches and (millimeters)