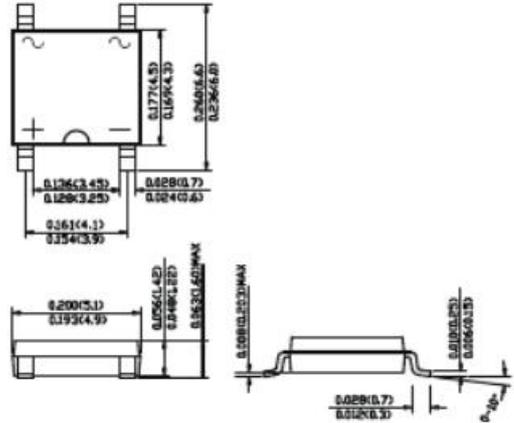


ABS2 THRU ABS10

- 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

ABS



Dimensions in inches and (millimeters)

Mechanical Data

- Case: ABS, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,

Maximum Ratings and Electrical Characteristics

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

TYPE NUMBER	SYMBOL	ABS2	ABS4	ABS6	ABS8	ABS10	UNITS	
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V	
Working Peak Reverse Voltage	V_{RWM}							
DC Blocking Voltage	V_{DC}							
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V	
Maximum average forward rectified current @ $A=40$ °C	I_o	1.0					A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35					A	
Forward Voltage per element @ $I_F=1.0A$	V_{FM}	1.1					V	
Peak Reverse Current @ $A=25$ °C At Rated DC Blocking Voltage @ $T_A=125$ °C	I_R	5.0					100	uA
Typical Junction Capacitance per leg (Note 1)	C_J	25					pF	
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JA}$	80					°C/W	
	$R_{\theta JL}$	16						
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150					°C	

Note:1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B

with 0.5x0.5"(13x13mm)cop

ABS2 THRU ABS10

FIG.1 TYPICAL FORWARD CHARACTERISTICS

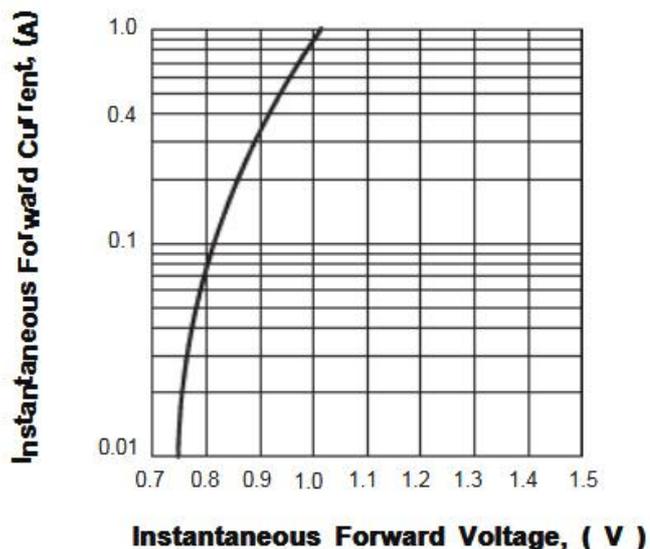


FIG.2 FORWARD DERATING CURVE

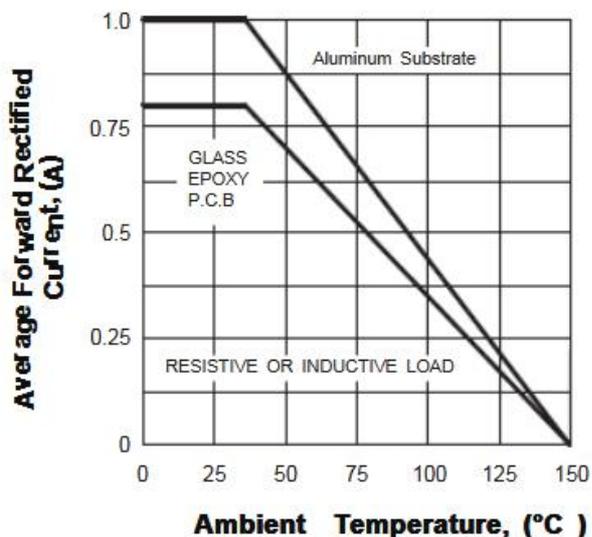


FIG.3 TYPICAL REVERSE CHARACTERISTICS

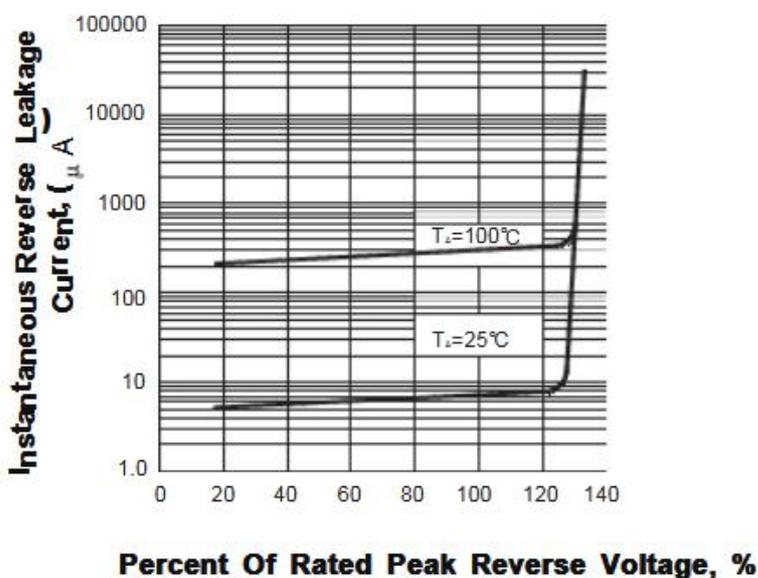


FIG.4 PEAK FORWARD SURGE CURRENT

