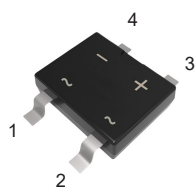


Special For high frequency application Bridge Rectifier



ABS Package

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

Features

- Compliant with RoHS Provisions
- Low forward voltage, high forward current
- High forward surge current capability
- High heat-conducting performance
- Thermal welding performance: 260 °C /10sec

Applications

- Switching Power Supply
- Office Devices
- Industrial Auto-equipments

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbol	ABS202E150	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Average Rectified Output Current	I_O	2	A
Reverse Recovery Time. $I_F=0.5A, I_R=1A, I_{RR}=0.25A$	T_{rr}	35	ns
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50	A
$I^2 t$ rating for fusing ($1ms < t < 8.3ms$)	$I^2 t$	10.3	$A^2 S$
Dielectric Strength: Terminals to Case, AC 1 minute	V_{dis}	2.5	KV
Maximum Forward Voltage at 2.0 A	V_F	0.95	V
Maximum DC Reverse Current at $T_A=25\text{ }^{\circ}\text{C}$ Rated DC Blocking Voltage $T_A=125\text{ }^{\circ}\text{C}$	I_R	10 500	μA
Typical thermal resistance (Note 1)	$R_{\theta JC}$	16	$^{\circ}\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	$^{\circ}\text{C}$

Note: 1. Mounted on glass epoxy PC board with $4 \times 1.5 \times 1.5$ (3.81×3.81 cm) copper pad.

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Current Derating, Case

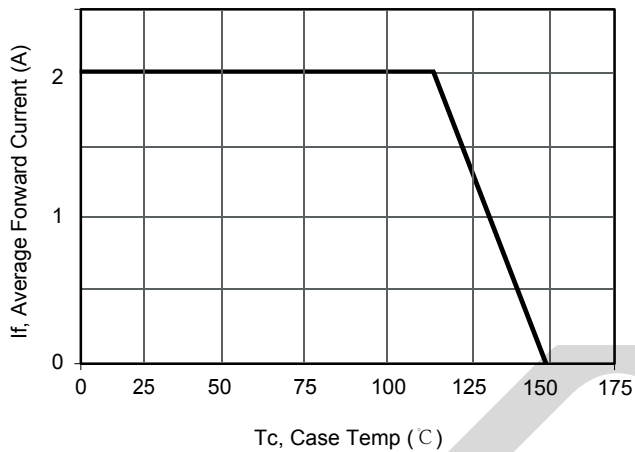


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

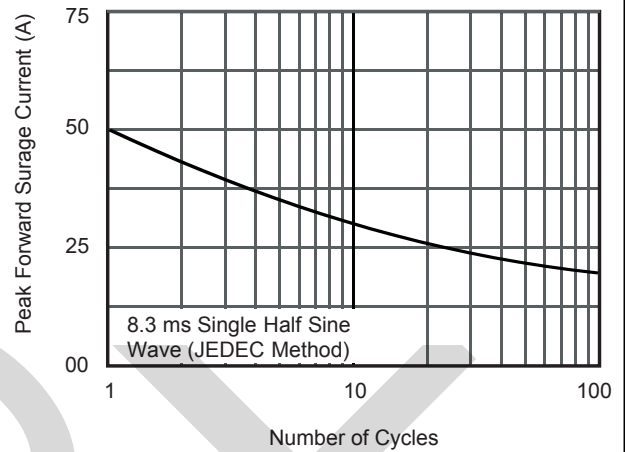


Fig.3 Typical Forward Voltage

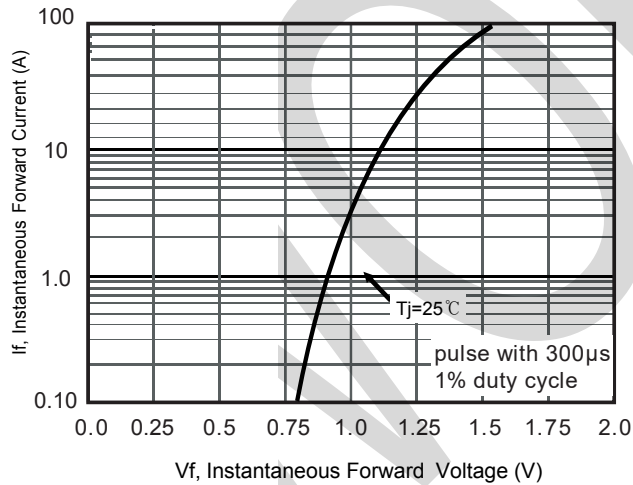
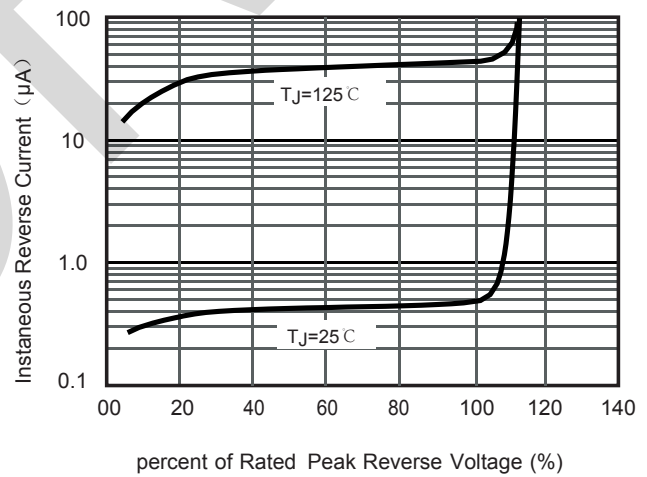
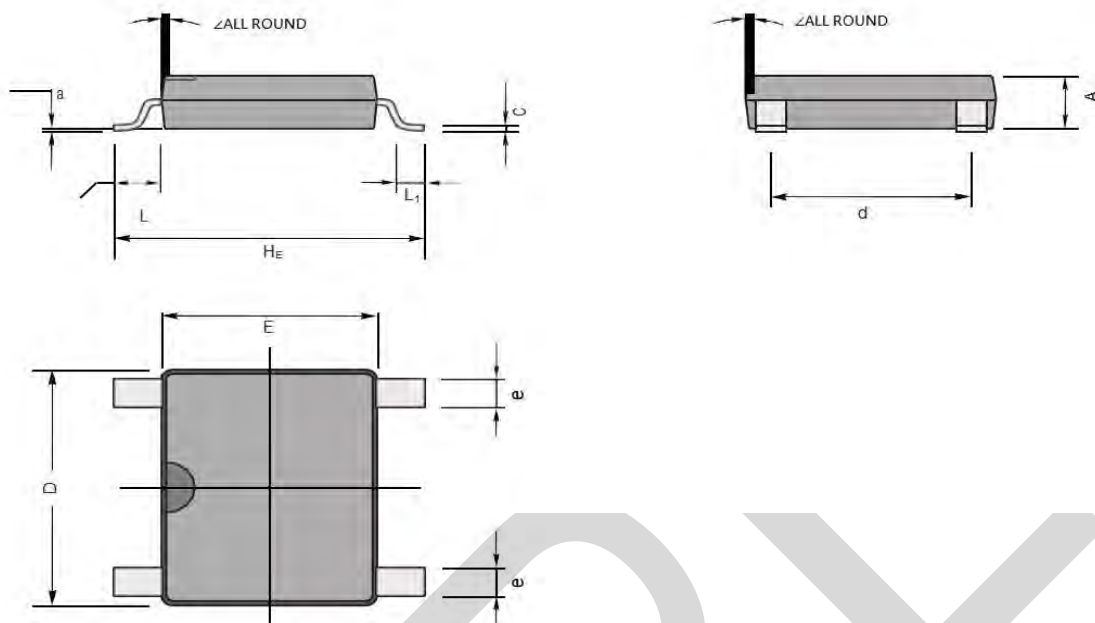


Fig.4 Typical Reverse Characteristics



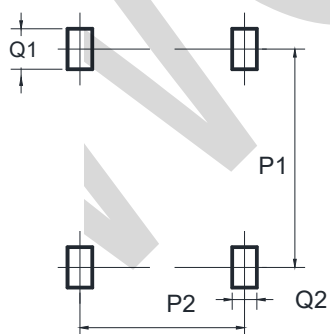
PACKAGE OUTLINE DIMENSIONS



ABS mechanical data

UNIT		A	C	D	E	HE	d	e	L	L ₁	a	∠
mm	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.2	7°
	min	1.2	0.15	4.9	4.2	6.0	3.8	0.5				
mil	max	59.1	8.66	205	177	252	165	27.55	37.40	23.62	7.87	
	min	47.23	5.91	193	166	236	149	19.68				

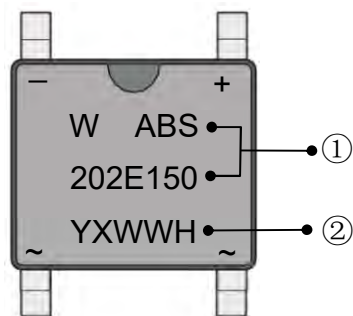
ABS Suggested Pad Layout



Dimensions is millimeters

UNIT		P1	P2	Q1	Q2
mm	min	5.70	4.00	1.0	0.9
mil	min	224.40	157.48	39.37	35.43

Marking Information



①Product model : ABS202E150

②PDC information :

Y X WW H

- H:Halogen-free
- WW:Week code(01 to 53)
- X:Internal identification code
- Y:Year code(ex:0=2020)