

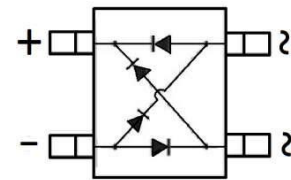
2A Fast Recovery Bridge Rectifier

Features

- Glass passivated die construction
- Reverse Voltage : 50 to 1000V
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0



ABS



Applications

- High-frequency switching power supply
- PFC circuit

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%.

Type Number	Symbol	RABS 205	RABS 21	RABS 22	RABS 24	RABS 26	RABS 28	RABS 210	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=125^\circ C$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load(JEDEC method)	I_{FSM}	70							A
Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.	V_{FM}	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	5.0							μA
	$T_A=100^\circ C$	200							
Maximum Reverse Recovery Time $T=25^\circ C$ (Note 3)	T_{RR}	150			350	500		nS	
Typical Junction Capacitance(Note 1)	C_J	15							pF
Typical Thermal Resistance(Note 2)	$R_{\theta JA}$	75							$^\circ C/W$
Operating Junction Temperature Range	T_J, T_{STG}	(-65 to +150)							$^\circ C$

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

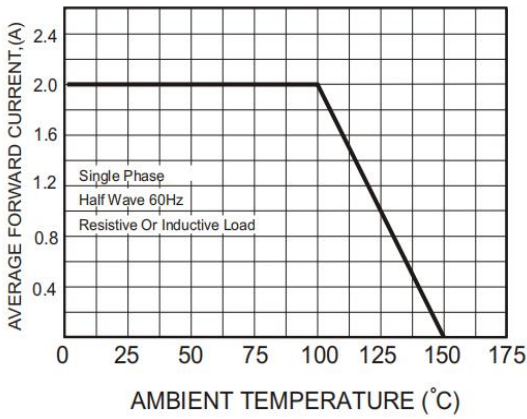


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

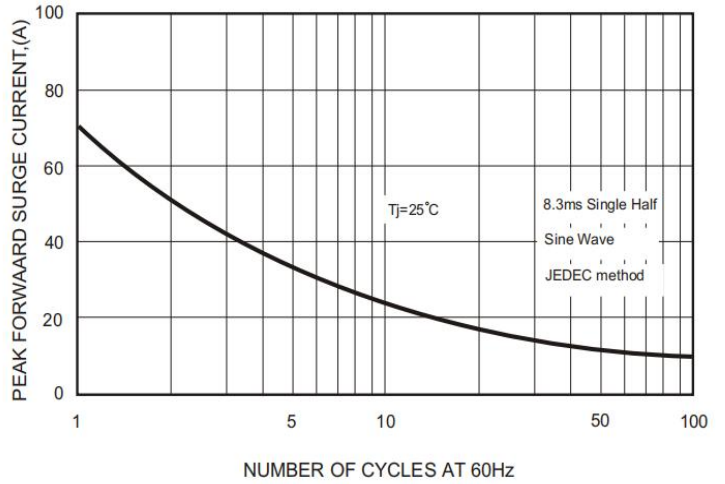


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

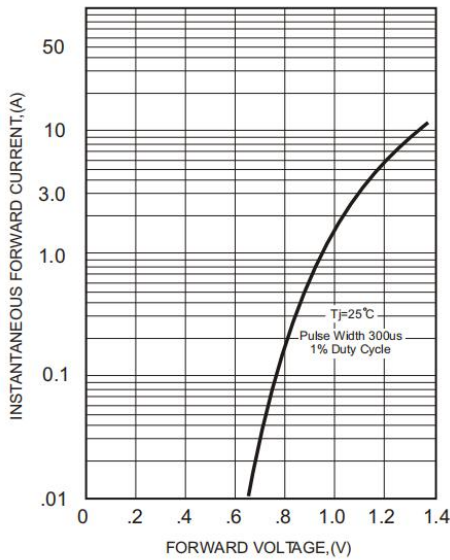


FIG.3-TYPICAL FORWARD CHARACTERISTICS

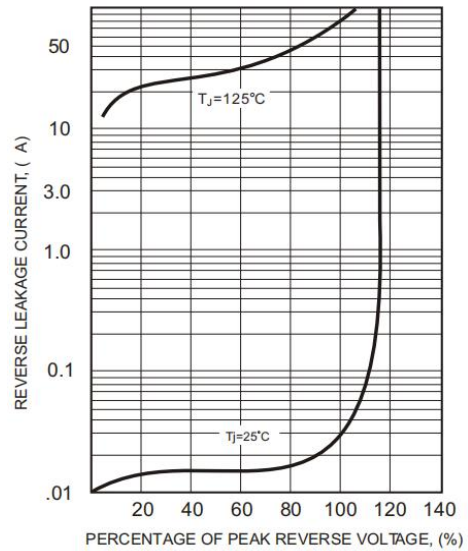
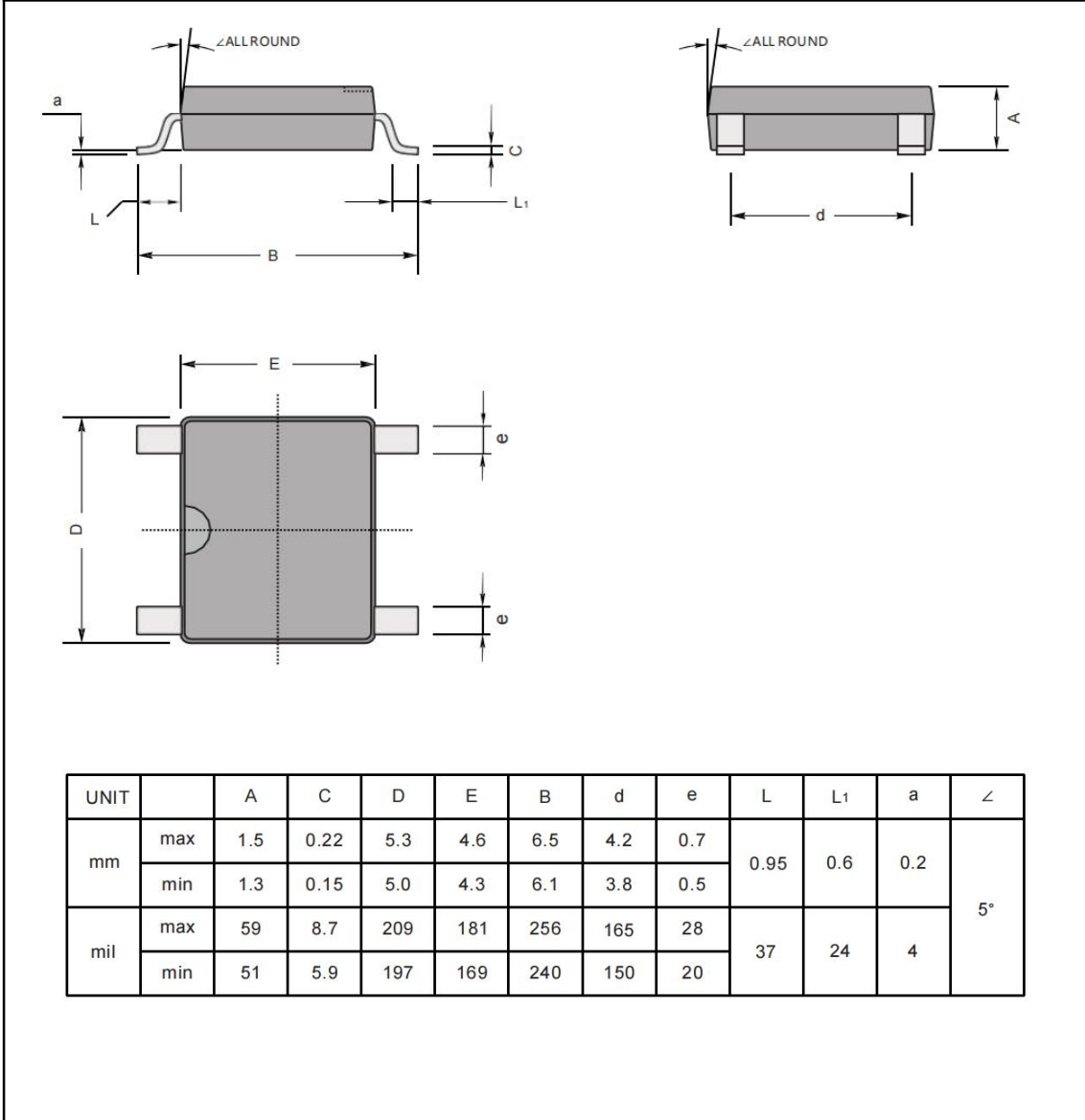


FIG.4-TYPICAL REVERSE CHARACTERISTICS

Package Outlines (Dimensions in mm)

Plastic surface mounted package(ABS)



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