

SABS02~SABS06

SUPER FAST RECOVERY BRIDGE RECTIFIERS

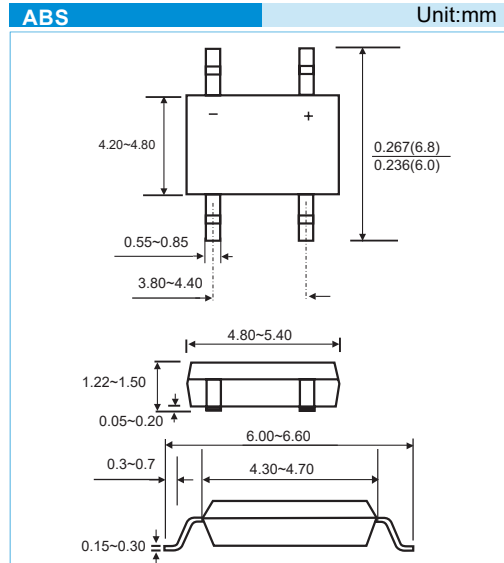
VOLTAGE 200 to 600 Volt **CURRENT** 1.0 Ampere

FEATURES

- Glass Passivated Diode Construction
- High surge forward current capability
- High surge current capability
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SABS02	SABS04	SABS06	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS Voltage	V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	V
Maximum Average Forward Current (see FIG.1)	$I_{F(AV)}$	1.0			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30			A
Maximum Forward Voltage at 0.5 A	V_F	0.95	1.30	1.70	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10			μA
Thermal Resistance	$R_{\theta JL}$	25			$^{\circ}C / W$
Maximum Reverse Recovery Time(Note 1)	t_{rr}	35			ns
Operating Junction Temperature Range	T_J	-55 to +150			$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150			$^{\circ}C$

NOTES:

1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$

SABS02~SABS06

RATING AND CHARACTERISTIC CURVES

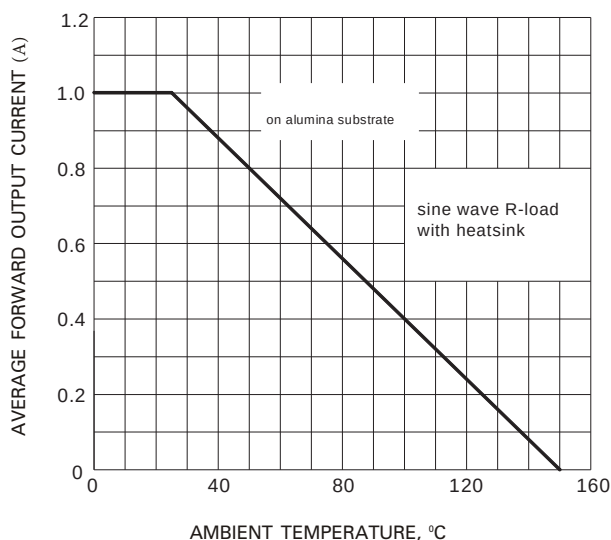


Fig. 1 - Forward Current Derating Curve

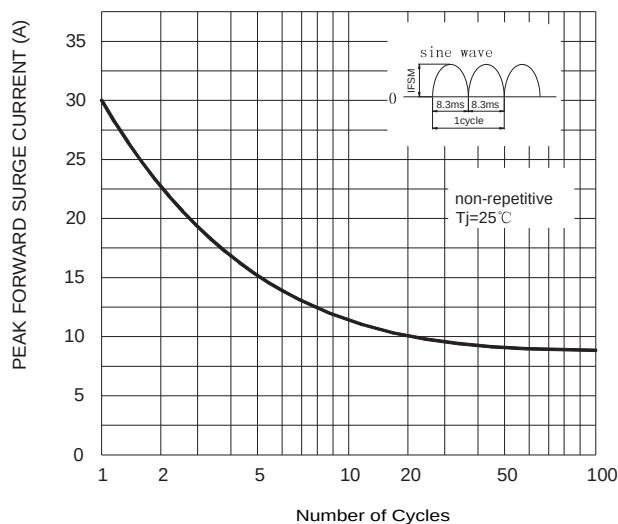


FIG2: Surge Current Derating Curve

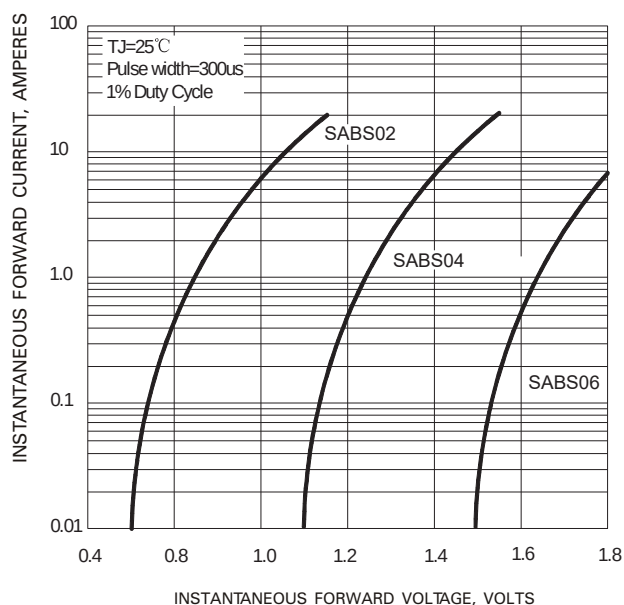


Fig. 3 Typical Forward Characteristics

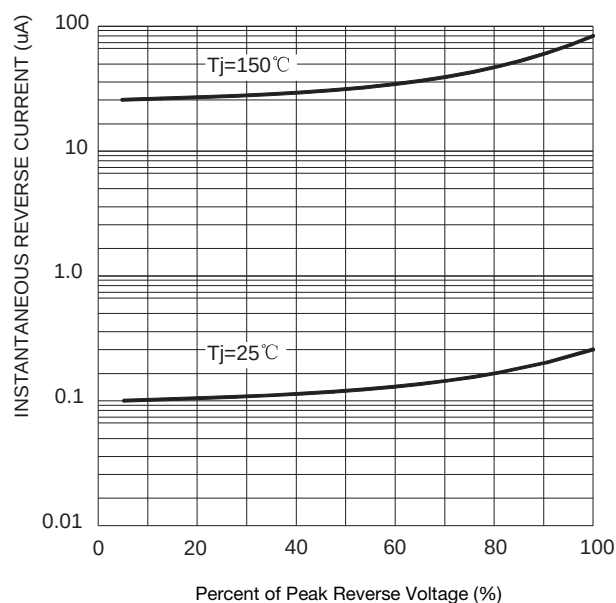


FIG4: Typical Reverse Characteristics

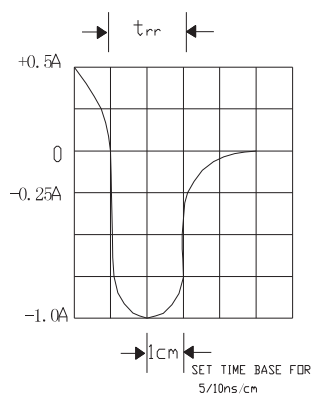
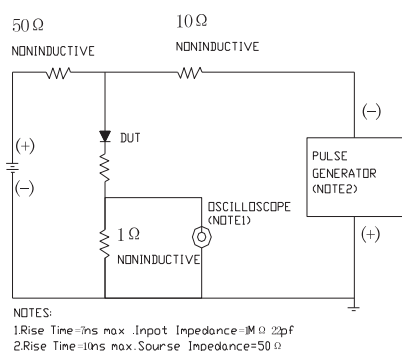


FIG 5: Diagram of circuit and Testing wave form of reverse recovery time

SABS02~SABS06

ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
SABS02~SABS06	ABS	13 Inch	5000/Reel