

### SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIERS

Reverse Voltage - 20 to 200 Volts    Forward Current - 3.0 Ampere

#### Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Schottky technology
- Ideal for automated placement
- High surge current capability
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Green compound (halogen&Sb<sub>2</sub>O<sub>3</sub> free)

#### Mechanical Data

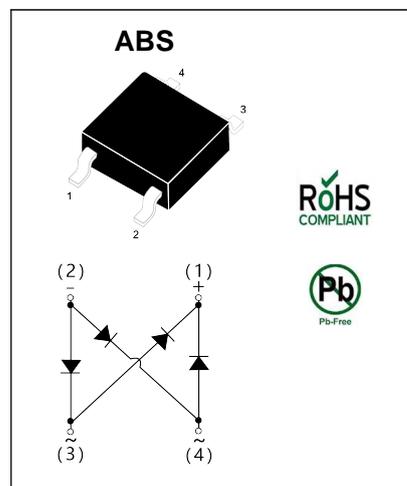
- Case: Molded plastic body
- Terminals: Plated lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any

#### Specification

#### Maximum Rating And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load derate current by 20%.



RoHS COMPLIANT

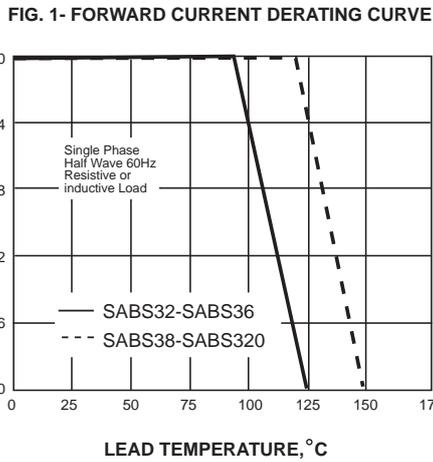
Pb-Free

	SYMBOLS	SABS32	SABS33	SABS34	SABS35	SABS36	SABS38	SABS310	SABS315	SABS320	UNITS	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current at T <sub>L</sub> (see fig.1)	I <sub(av)< sub=""></sub(av)<>	3.0									A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	70.0									A	
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	0.45	0.55	0.70			0.85		0.95		V	
Maximum DC reverse current    T <sub>A</sub> =25°C at rated DC blocking voltage    T <sub>A</sub> =100°C	I <sub>R</sub>	0.5						0.2			mA	
		10.0			5.0		2.0					
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	120			90						pF	
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	75.0										°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to +125					-55 to +150					°C
Storage temperature range	T <sub>STG</sub>	-55 to +150										°C

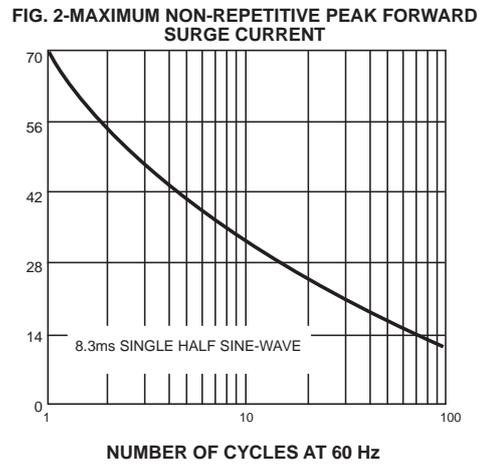
**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

### Ratings and characteristic curves SABS32 thru SABS320

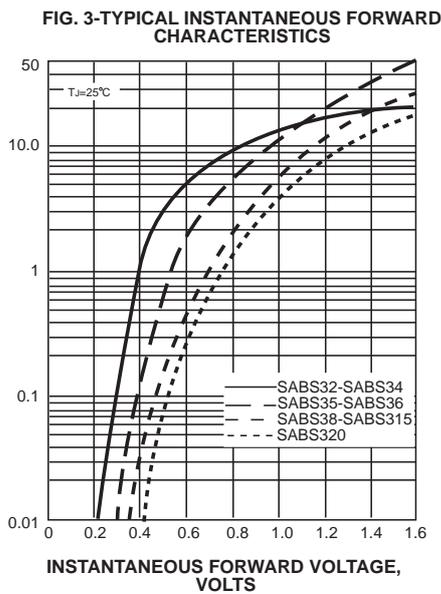
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



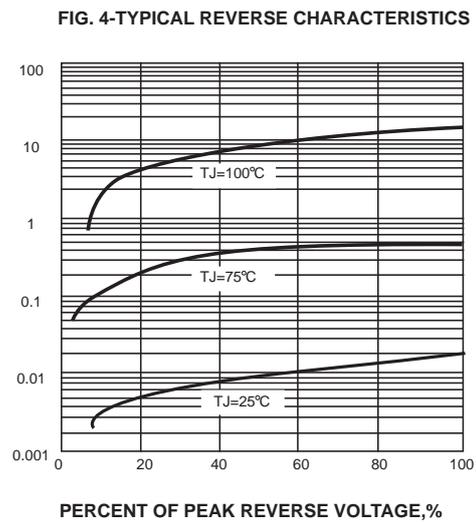
PEAK FORWARD SURGE CURRENT, AMPERES



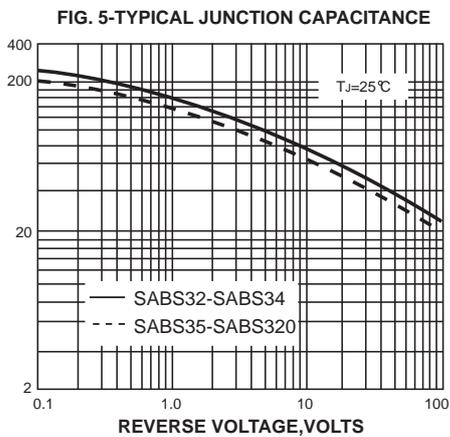
INSTANTANEOUS FORWARD CURRENT, AMPERES



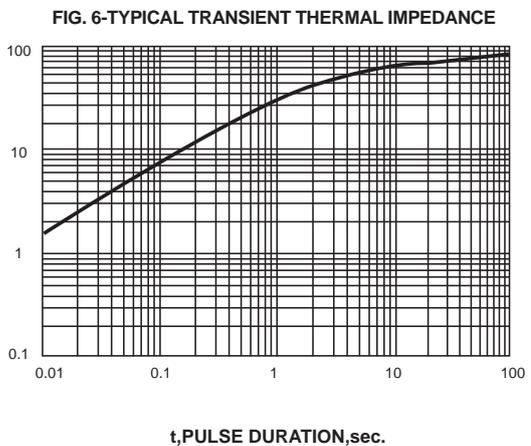
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



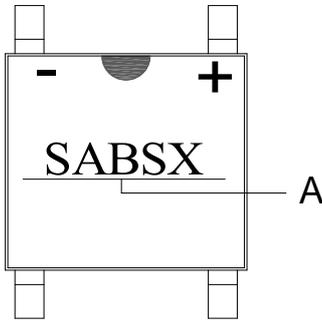
JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W

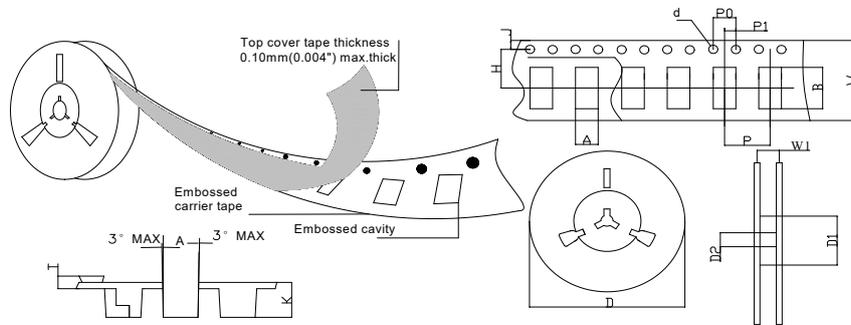


### 1、Marking



SYMBOL	Explanation
A	Product Name

### 2、Packaging



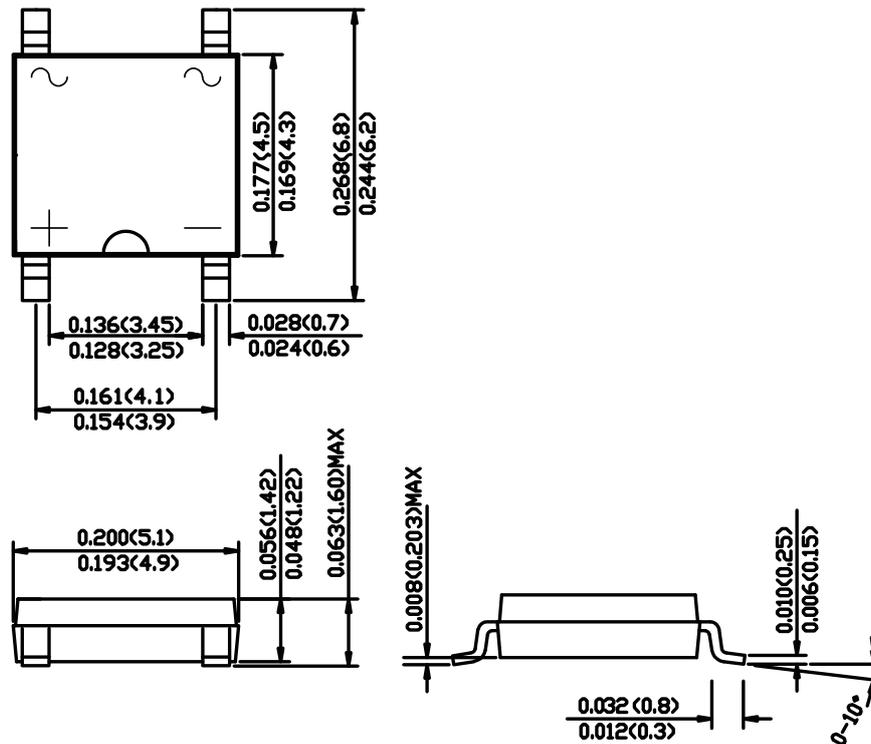
SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	ABS	ITEM	SYM BOL	ABS
Carrier width	A	5.45(0.215)Max	Carrier depth	K	1.60(0.063)Typ
Carrier length	B	7.0(0.276)Max	Punch hole pitch	P	8.00(0.315)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	50.0(2.913)Min	Overall tape thickness	T	0.30(0.012)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	12.0(0.472)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	12.4(0.488)Min
Punch hole position	H	5.50(0.217)Typ			

### 3、Ordering Information

Part Number	Compliance	Case	Packaging
SABSX	Standard	ABS	5000/Tape & Reel

### Dimension

### ABS



Dimensions in inches and (millimeters)

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