

ABS Plastic-Encapsulate Bridge Rectifier

3.0A SURFACE MOUNT SCHOTTKY BARRIER BRIDGE RECTIFIER

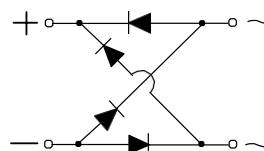
Features

Schottky Barrier Chip
 Ideally Suited for Automatic Assembly
 Low Power Loss, High Efficiency
 High Surge Current Capability
 For Use in Low Voltage Application
 Plastic Case Material has UL Flammability
 Classification Rating 94V-O

Mechanical Data

Case: SOPA-4, 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

ABS



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	KABS 32	KABS 33	KABS 34	KABS 35	KABS 36	KABS 38	KABS 310	KABS 315	KABS 320	KABS 325	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RW} M _{VR}	20	30	40	50	60	80	100	150	200	250	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	56	70	105	140	175	V
Average Rectified Output Current @T _L = 90°C	I _O	3.0										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80										A
Forward Voltage @I _F = 3.0A	V _{FM}	0.50			0.70		0.85		0.90		0.92	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	100 20										uA mA
Typical Thermal Resistance (Note 1)	R _{θJL} R _{θJA}	10 50										°C/W
Typical Junction Capacitance	C _j	110										pF
Operating Temperature Range	T _j	-65 to +150										°C
Storage Temperature Range	T _{STG}	-65 to +150										°C

Note: 1. Mounted on P.C. Board with 5.0mm² copper pad area.

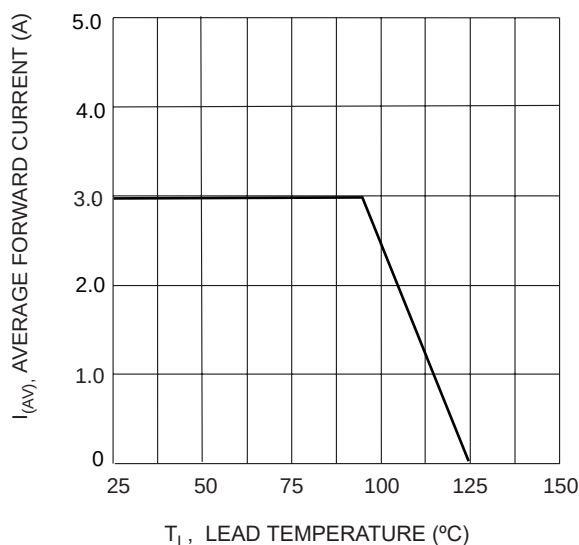


Fig. 1 Forward Current Derating Curve

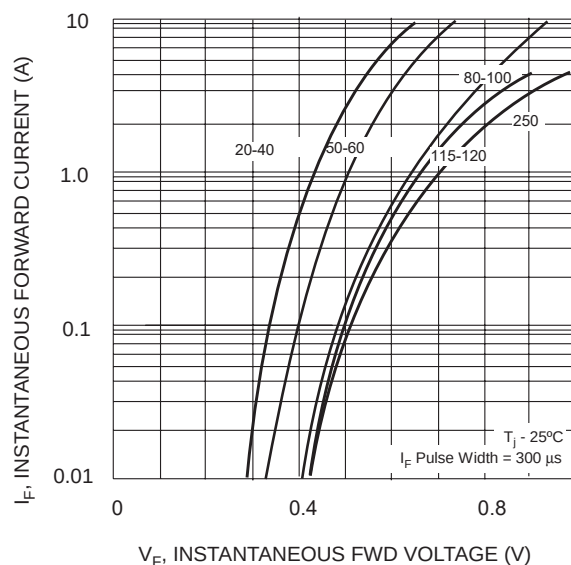


Fig. 2 Typ. Forward Characteristics

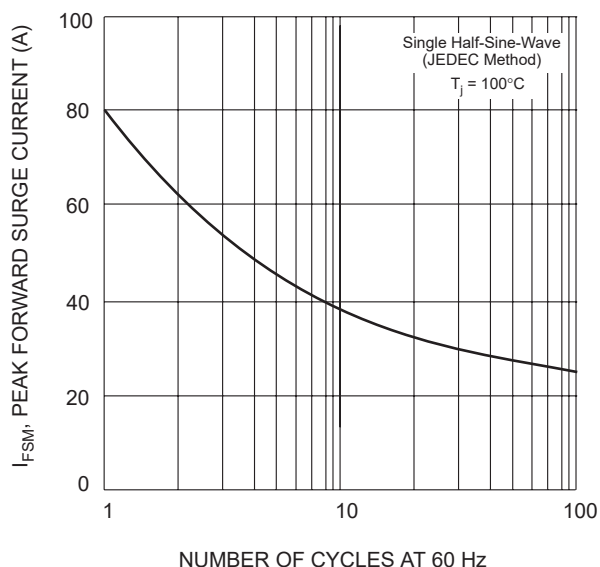


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

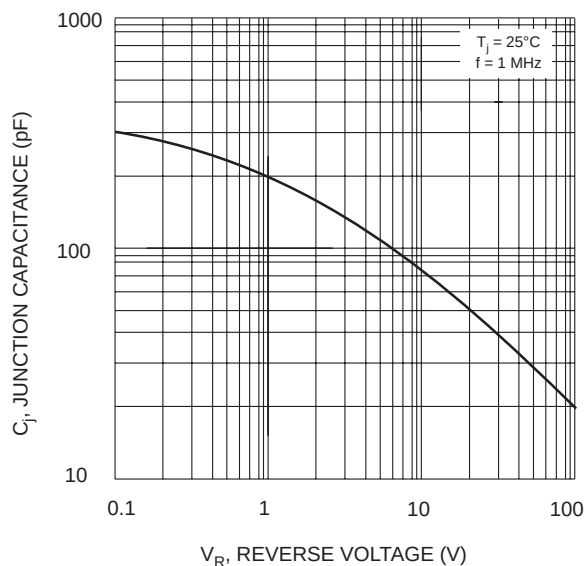


Fig. 4 Typical Junction Capacitance

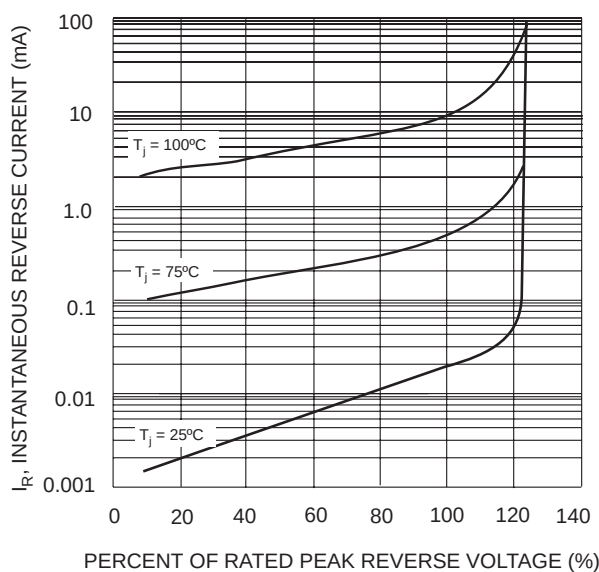
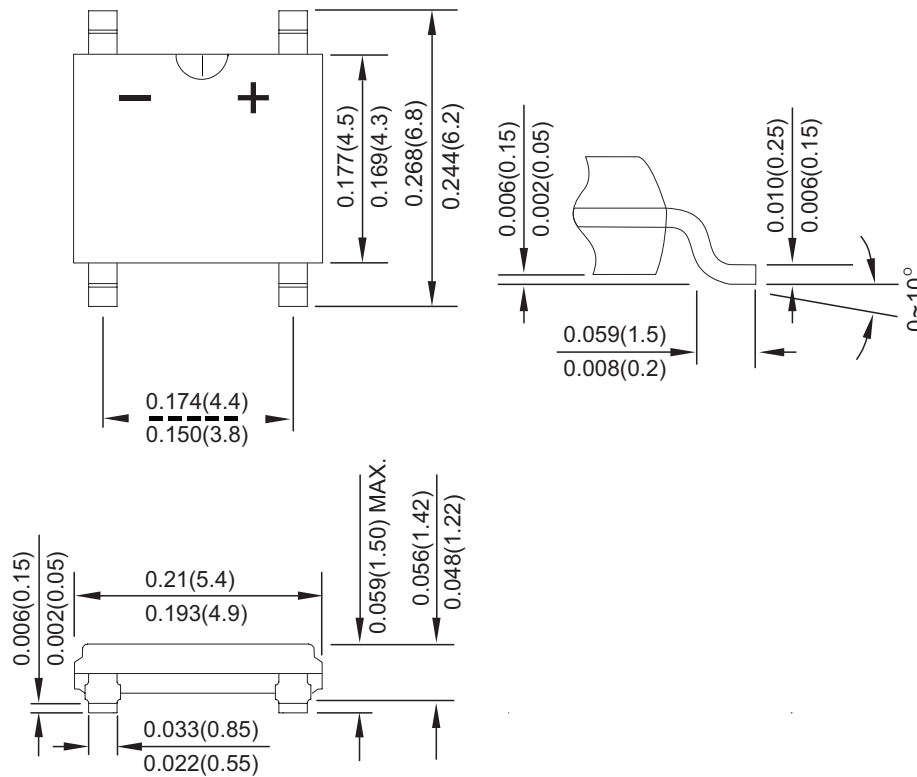


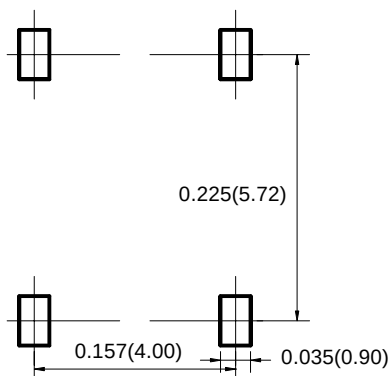
Fig. 5 Typical Reverse Characteristics

ABS Package Outline Dimensions



Dimensions in inches and (millimeters)

ABS Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

Reel Taping Specifications For Surface Mount Devices-ABS

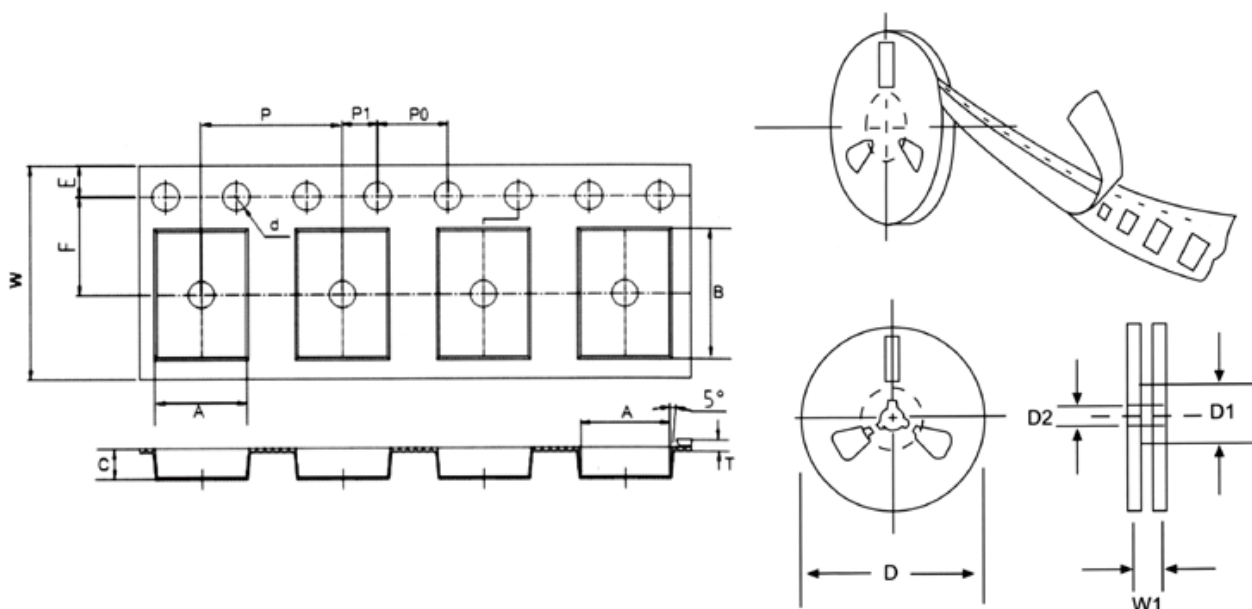


FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	ABS mm(inch)
Carrier width	A	5.40+0.1(0.213+0.004)
Carrier length	B	6.90+0.05(0.272+0.002)
Carrier depth	C	2.10+0.1(0.083+0.004)
Sprocket hole	d	1.55±0.05(0.061±0.002)
Reel outside diameter	D	279±2.0 (11± 0.079)
Reel inner diameter	D1	75±1.0 (2.95 ±0.039)
Feed hole diameter	D2	13+0.5(0.512+0.020)
Sprocket hole position	E	1.75+0.1(0.069+0.004)
Punch hole position	F	5.5+0.05(0.217+0.002)
Punch hole pitch	P	8.0+0.1(0.315+0.004)
Sprocket hole pitch	P0	4.0+0.1(0.157+0.004)
Embossment center	P1	2.0+0.1(0.079+0.004)
Totall tape thickness	T	0.10-0.70(0.004-0.028)
Tape width	W	12.0+0.3/-0.1(0.472+0.004)
Reel width	W1	16.8+2.0(0.661+0.079)

NOTE: Devices are packde in accordance with EIA standard RS-481-A and specification given above.