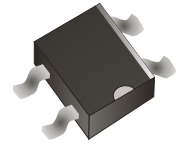


KMB32S-G Thru. KMB310S-G

Reverse Voltage: 20 to 100 Volts

Forward Current: 3.0 Amp

RoHS Device

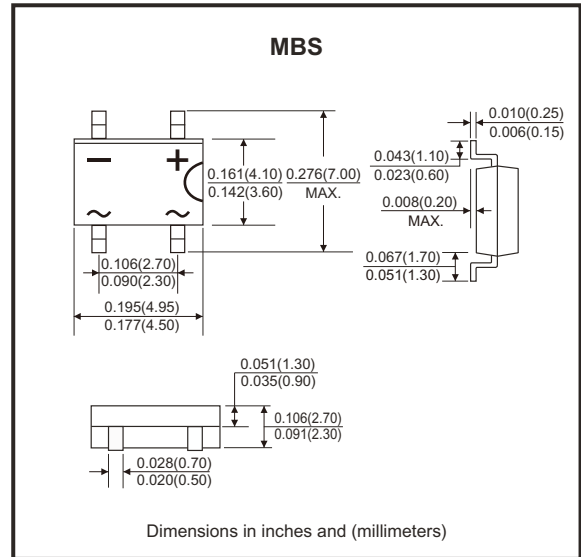


Features

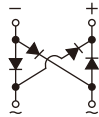
- Schottky brier chip.
- Low power loss, high efficiency.
- Ideally suited for automatic assembly.
- Surge overload rating to 80A peak.
- Plastic case material has UL flammability classification rating 94V-0.

Mechanical data

- Case: MB-S, molded plastic.
- Terminals: Plated leads solderable per MIL-STD-202, Method 208.
- Polarity: As marked on case.
- Mounting position: Any.



Circuit Diagram



Maximum Ratings and Electrical Characteristics (at T_A=25°C, unless otherwise specified)

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

Parameter		Symbol	KMB-G								Unit
			32S	33S	34S	345S	35S	36S	38S	310S	
Peak repetitive reverse voltage		V _{RRM}	20	30	40	45	50	60	80	100	V
DC blocking voltage		V _{DC}	20	30	40	45	50	60	80	100	V
RMS reverse voltage		V _{R(RMS)}	14	21	28	31	35	42	56	70	V
Average rectified output current (Note 1) @T _C =100°C		I _{F(AV)}	3								A
Non-Repetitive peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	80								A
I ² t rating for fusing (t< 8.3ms)		I ² t	26.560								A²s
Forward voltage per element	I _F =3.0A	V _{FM}	0.55				0.7		0.85		V
Peak reverse current at rated DC blocking voltage	T _A =25°C	I _{RM}	0.1						0.05		mA
	T _A =100°C		10						5		
Typical junction capacitance per leg		C _j	28								pF
Typical thermal resistance per leg (Note 2)		R _{θJL}	16								°C/W
Operating junction temperature range		T _J	-55 to +150								°C
Storage temperature range		T _{STG}	-55 to +150								°C

Notes: 1. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
2. Thermal resistance from junction to lead.

Company reserves the right to improve product design , functions and reliability without notice.

Rating and Characteristics Curves (KMB32S-G Thru. KMB310S-G)

Fig.1 - Forward Current Derating Curve

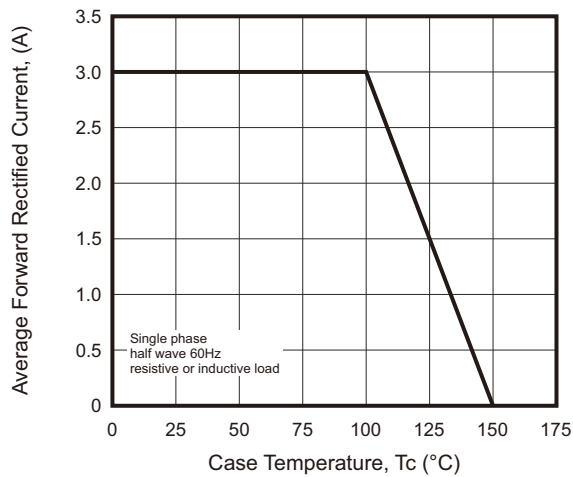


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

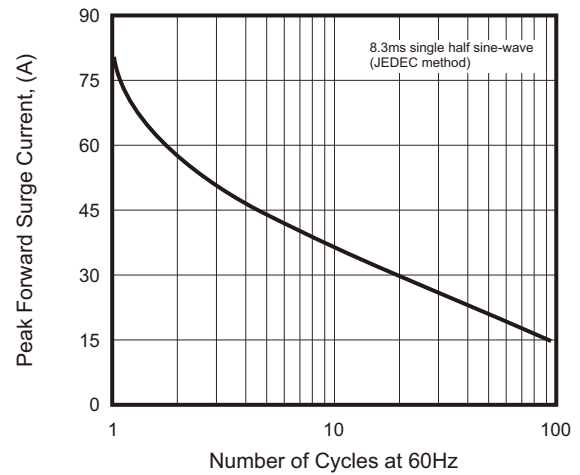


Fig.3 - Typical Instantaneous Forward Characteristics

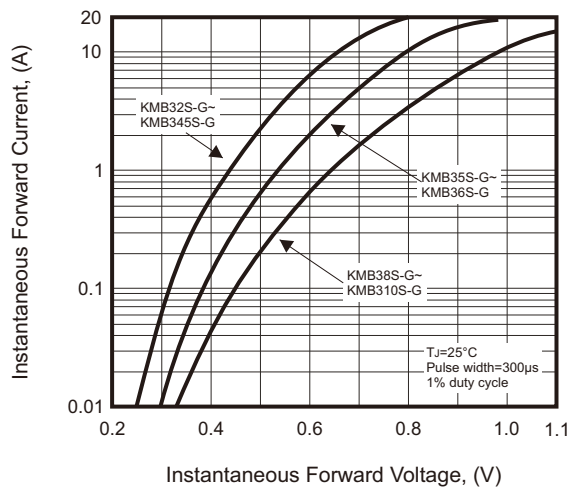
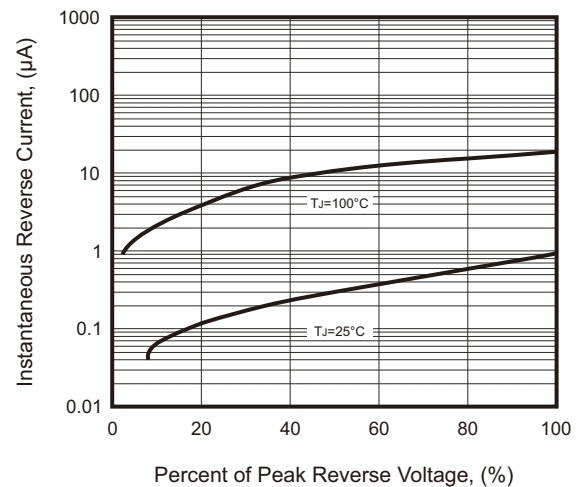
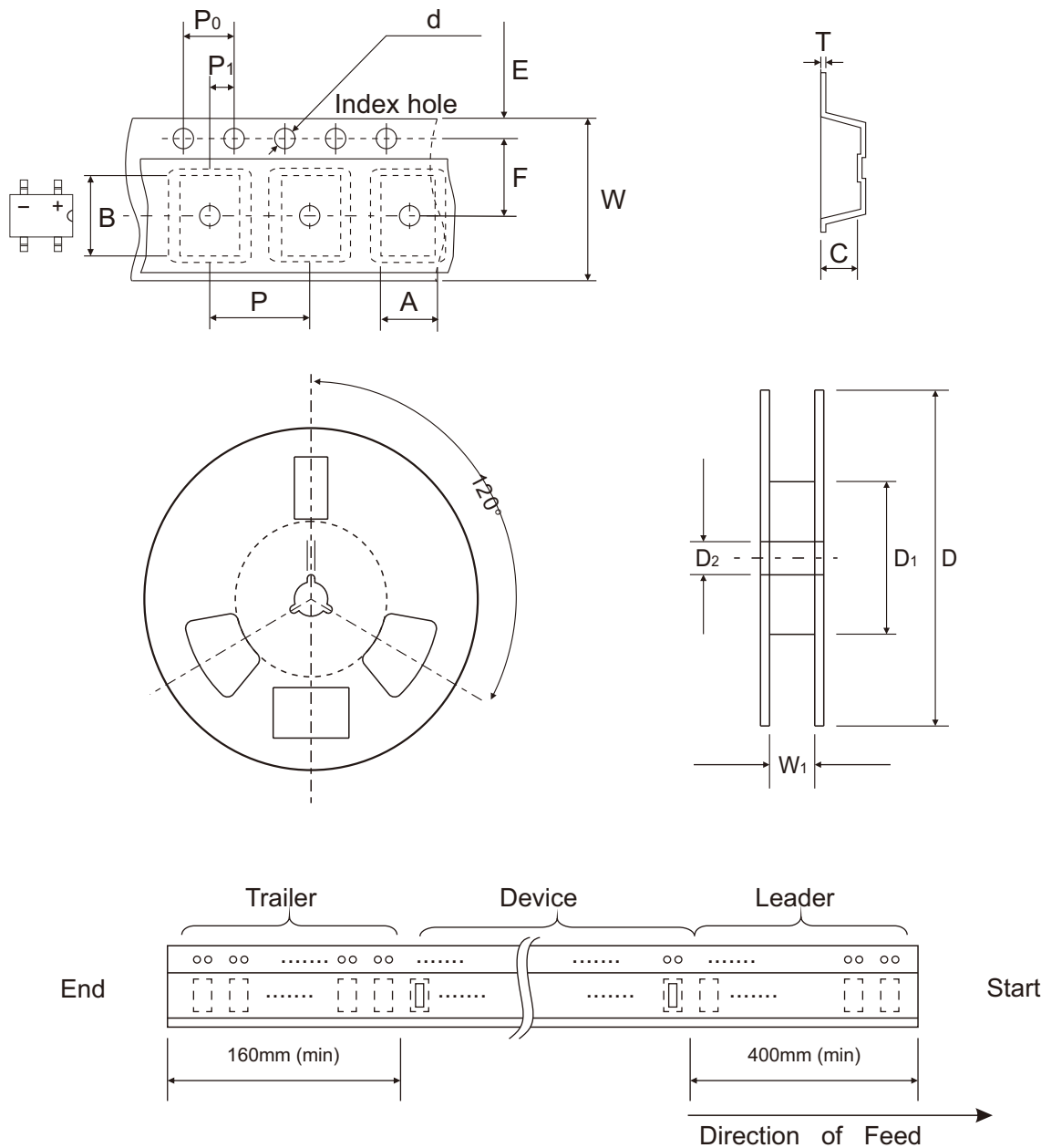


Fig.4 - Typical Reverse Characteristics



Reel Taping Specification

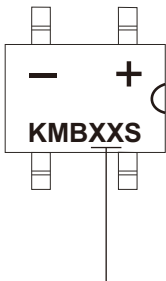


MBS	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	5.02 ± 0.10	7.22 ± 0.10	2.88 ± 0.10	1.55 ± 0.05	330.00 ± 1.00	75.00 ± 1.00	13.50 + 1.00 - 0.50
	(inch)	0.198 ± 0.004	0.284 ± 0.004	0.113 ± 0.004	0.061 ± 0.002	12.992 ± 0.039	2.953 ± 0.039	0.531 + 0.039 - 0.020

MBS	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.27 ± 0.03	12.00 ± 0.10	13.50 ± 1.00
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.011 ± 0.001	0.472 ± 0.004	0.531 ± 0.039

Marking Code

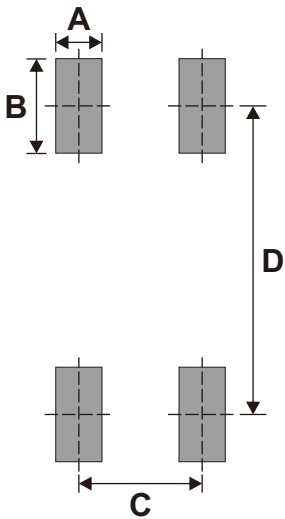
Part Number	Marking Code
KMB32S-G	KMB32S
KMB33S-G	KMB33S
KMB34S-G	KMB34S
KMB345S-G	KMB345S
KMB35S-G	KMB35S
KMB36S-G	KMB36S
KMB38S-G	KMB38S
KMB310S-G	KMB310S



XX/XXX = Product type marking code

Suggested PAD Layout

SIZE	MBS	
	(mm)	(inch)
A	0.90	0.035
B	1.84	0.072
C	2.40	0.094
D	6.00	0.236



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
MBS	3,000	13