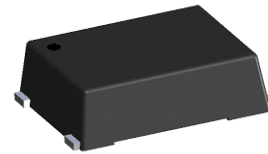


**SCHOTTKY
SURFACE MOUNT BRIDGE RECTIFIERS**

**REVERSE VOLTAGE – 60 Volts
FORWARD CURRENT – 2.0 Ampere**

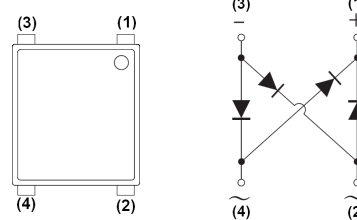
FEATURES

- Rating to 60V PRV
- Compact, thin profile package design
- Ideal for SMT manufacturing
- Reliable robust construction
- The plastic material has UL flammability classification 94-0



MECHANICAL DATA

- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl) “Halogen-free”
- Polarity indicator: As marked on body
- Marking : MK260
- Weight:70 mg



Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristics	Symbol	Limit	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	V
Maximum DC Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Rectified Current @T _c =110 °C	I _(AV)	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50	A
I ² t Rating for fusing (1ms < t < 8.3ms)	I ² t	10.4	A ² S
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics

Characteristics	Test Condition	Symbol	Min	Typ.	Max	Unit
Maximum Forward Voltage	@T _j =25°C @T _j =125°C	IF = 1A	V _F	-- 0.55 0.46	---	V
Maximum Forward Voltage	@T _j =25°C @T _j =125°C	IF = 2A	V _F	-- 0.56	0.7 0.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _j =25°C @T _j =125°C	VR = 60V	I _R	--	0.02 100	mA
Typical junction capacitance per element	Note(1)	C _J	--	125	--	pF

Thermal Characteristics

Characteristics	Symbol	Min	Typ.	Max	Unit
Typical Thermal Resistance (Note 2)	R _{θJC}	--	15	--	°C/W
	R _{θJL}	--	25	--	
	R _{θJA}	--	75	--	

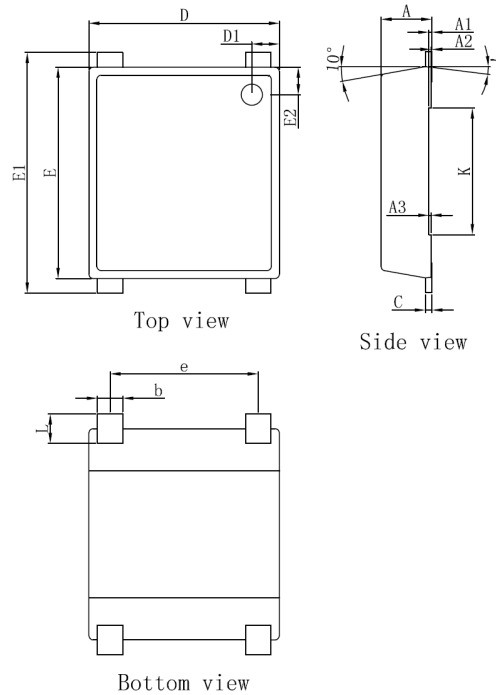
Note :

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (2) Thermal Resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/ft² 5 x 5 mm copper pad .

Rev.0, July-2014, KBDA28

Package Dimension

MSB



MSB			
Dim.	Min.	Typ.	Max.
A	1.10	1.20	1.30
A1	0.05	---	0.08
A2	0.00	0.02	0.05
A3	0.03	0.05	0.08
C	0.12	0.15	0.18
D	4.40	4.5	4.60
D1	0.60	0.65	0.70
E	4.90	5.00	5.10
E1	5.60	5.70	5.80
E2	0.60	0.65	0.70
L	0.65	0.70	0.75
b	0.55	0.60	0.70
e	3.45	3.50	3.55
K	2.95	3.00	3.05
All dimensions in millimeter			

FIG.1-FORWARD CURRENT DERATING CURVE

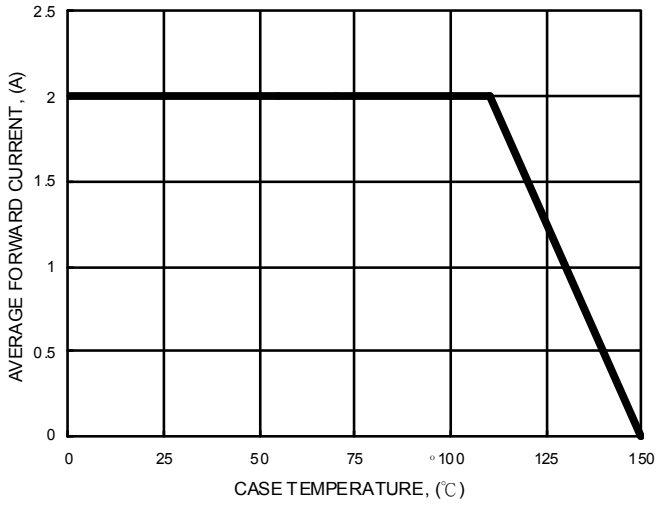


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

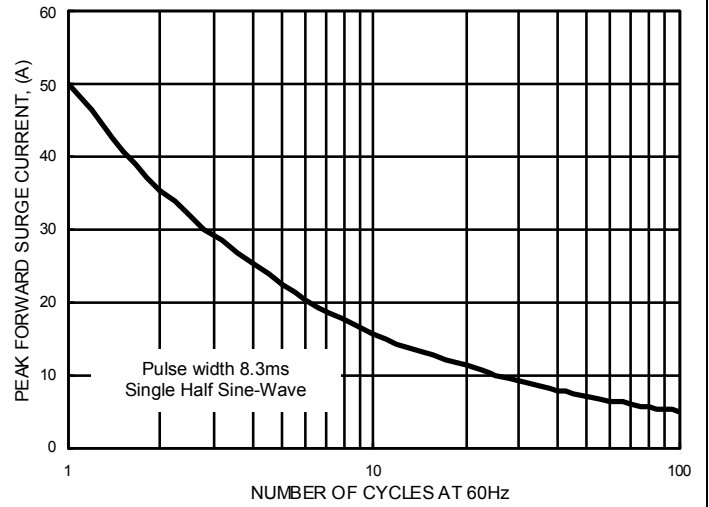


FIG.3- TYPICAL FORWARD CHARACTERISTICS

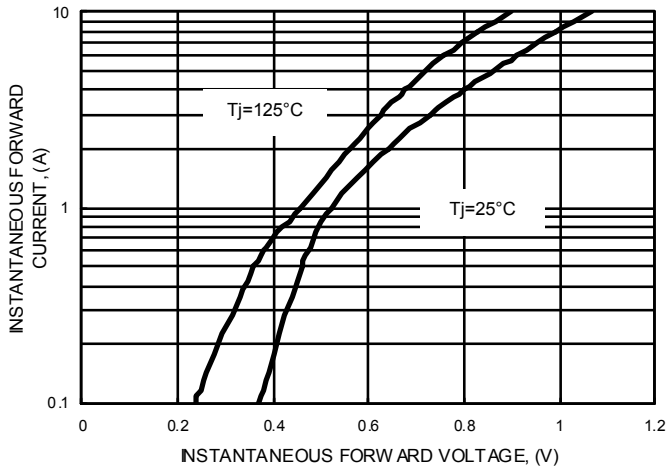


FIG.4- TYPICAL JUNCTION CAPACITANCE

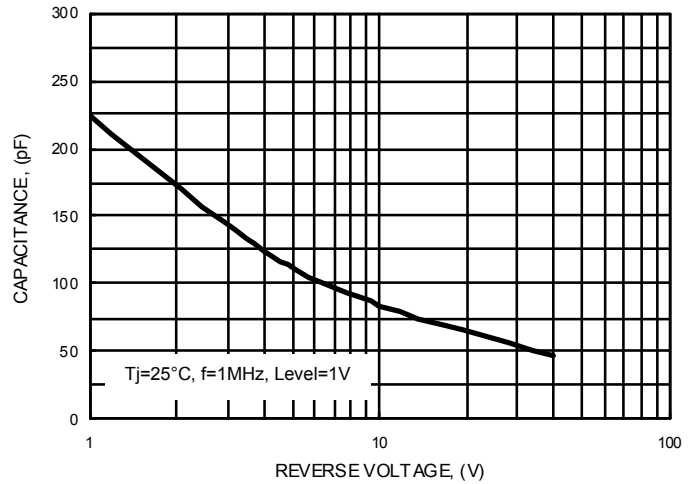
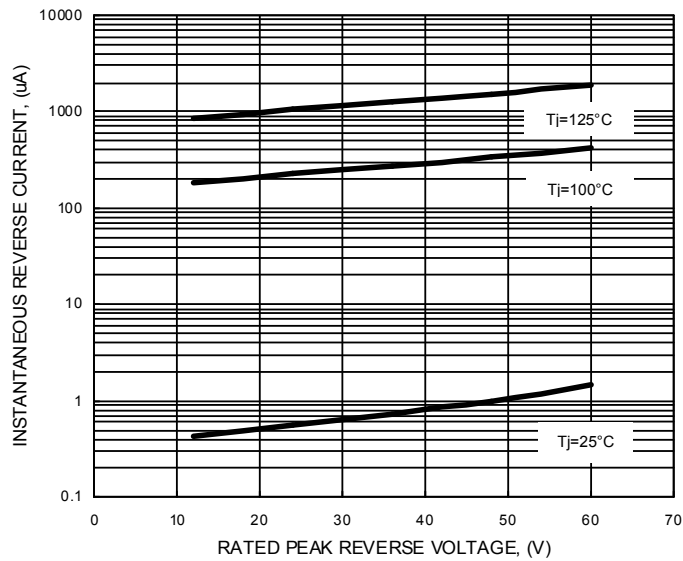


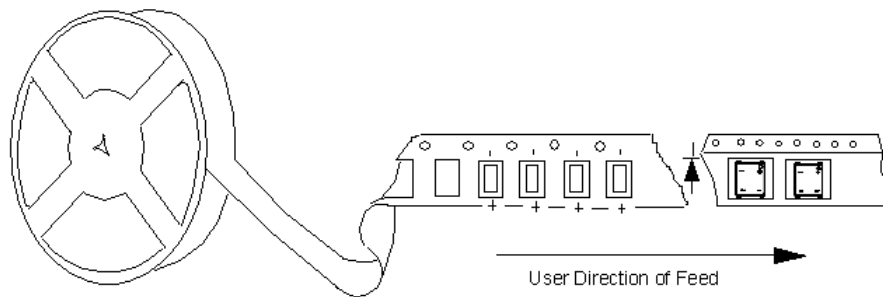
FIG.5- TYPICAL REVERSE CHARACTERISTICS



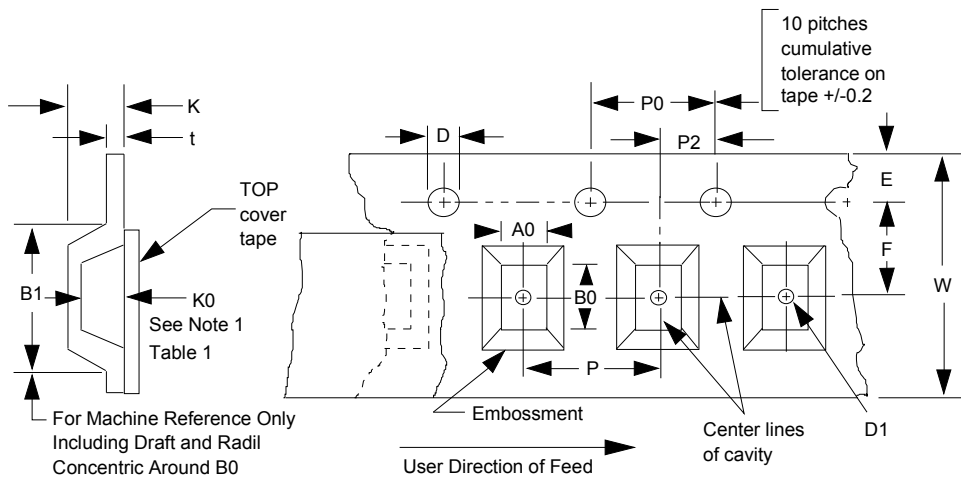
Packaging Information

DEVICE	Q'TY/REEL (PCS)	REEL DIA. (mm)	BOX SIZE (mm)	Q'TY/BOX (PCS)	CARTON SIZE (mm)	Q'TY/CARTON (PCS)	MOQ
MSK260	3000	330	334x334x21	3000	365x365x355	36K	36K

Polar Units



Embossed Carrier Dimension



UNIT: mm

TAPE SIZE	D	E	PO	t (MAX)	A0	B0	K0
12mm	1.55+0.10/-0.0	1.75+/-0.10	4.0+/-0.10	0.4	4.8+/-0.1	6.0+/-0.1	1.5+/-0.1
	B1 (MAX)	D1 (MIN)	F	K (MAX)	P2	W	P
	8.2	1.5	5.5+/-0.1	2.2	2.0+/-0.05	12.0+/-0.30	8.0+/-0.1

Typical IR Reflow Soldering Thermal Profile

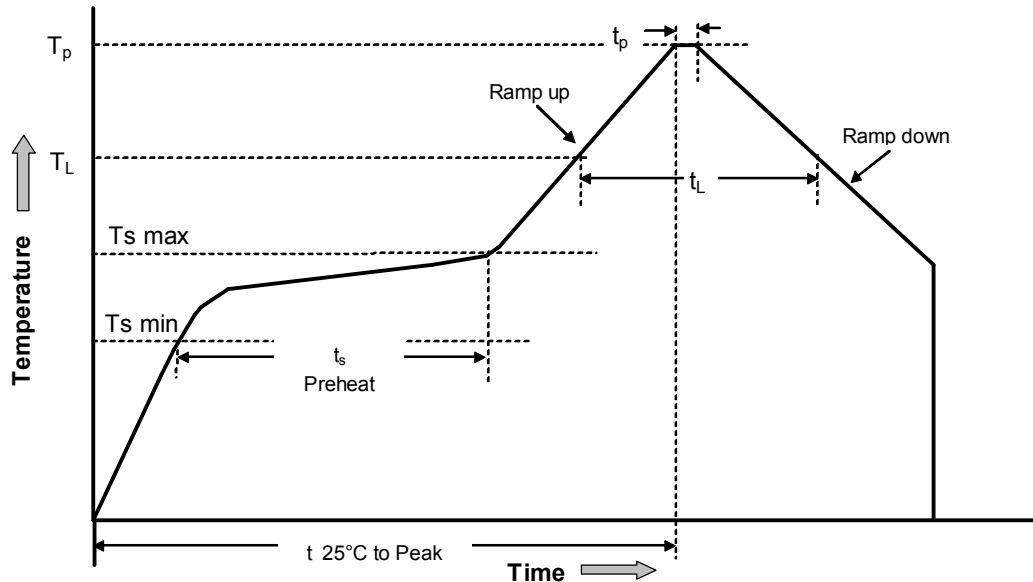


Table 1- Reflow profile

Reflow condition	Sn-Pb assembly	Pb-free assembly
Average ramp-up rate (Liquidus Temperature (TL) to Peak)	3 °C/second max.	3 °C/second max.
Preheat		
--Temperature Min, Ts (Min)	100 °C	150 °C
--Temperature Max, Ts (Max)	150 °C	200 °C
--Time (min to max, ts)	60-120 seconds	60-180 seconds
Ts(max) to TL		
- Ramp-up Rate		3 °C/second max.
Time maintained above:		
--Temperature(TL)	183 °C	217 °C
--Time(tL)	60-150 seconds	60-150 seconds
Peak Temperature (Tp)	240 +0/-5 °C	260 +0/-5 °C
Time within 5 °C of actual Peak Temperature(tp)	10-30 seconds	20-40 seconds
Ramp-down Rate	6 °C/second max.	6 °C/second max.
Time 25 °C to Peak Temperature.	6 minutes max.	8 minutes max.

Note: All temperatures refer to topside of the package, measured on the package body surface

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