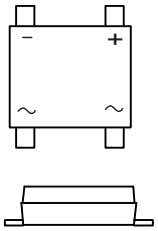
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

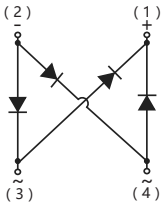
Features

UMB

RoHS COMPLIANT

- Reverse Voltage - 50 & 1000 V
- Forward Current - 0.8 A
- High Surge Current Capability
- Designed for Surface Mount Application





Mechanical Data

- **Case** : UMB
- **Terminals** : Solder plated, solderable per MIL-STD-750,Method 2026
- **Weight** : 45mg 0.0016oz

Maximum Ratings And Electrical Characteristics

Rating 25°C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	UM05B	UM1B	UM2B	UM4B	UM6B	UM8B	UM10B	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=40°C(Note 1)	0.8							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	2 5							A
Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C.	1.0							V
Maximum DC Reverse Current Ta=25°C	3.0							μA
at Rated DC Blocking Voltage Ta=125°C	100							μA
Typical Thermal Resistance R JA (Note 2)	110							°C/W
Operating Temperature Range, TJ	-55 — +150							°C
Storage Temperature Range, TSTG	-55 — +150							°C

NOTES: 1. Mounted on P.C. Board.
2. Thermal Resistance Junction to Ambient.

Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

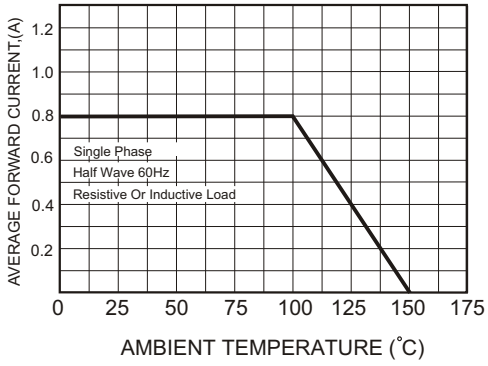


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

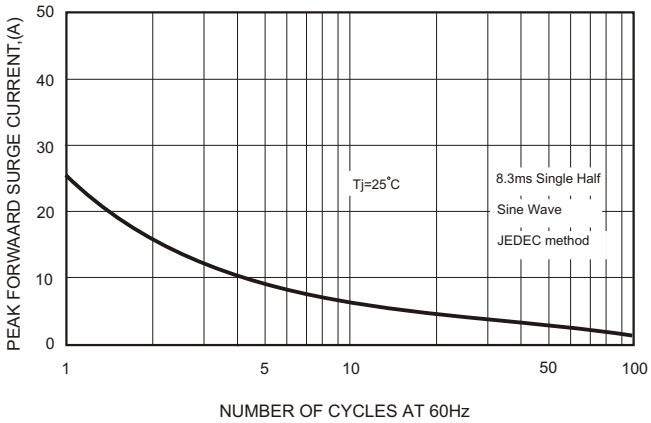


FIG.3-TYPICAL FORWARD CHARACTERISTICS

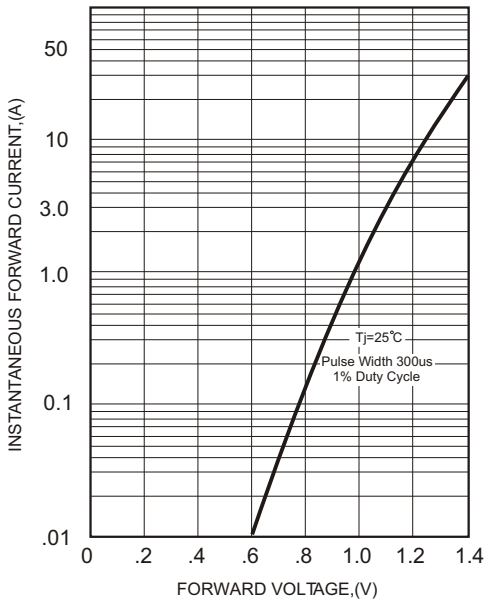
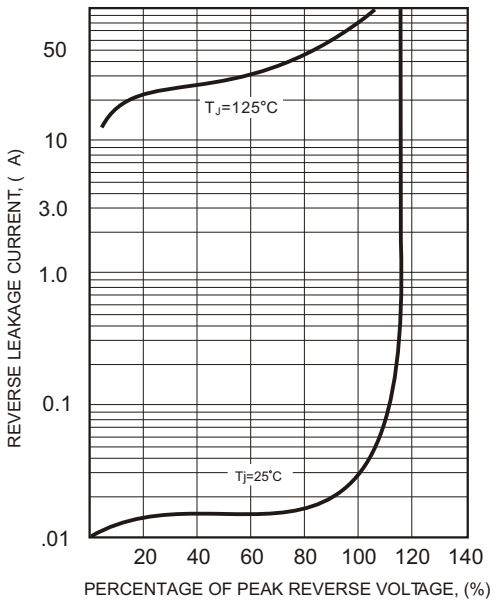
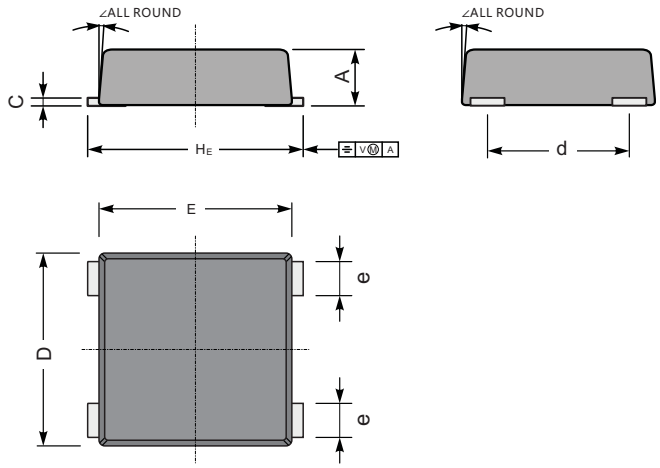


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PACKAGE OUTLINE

Plastic surface mounted package; 4 leads UMB



UMB mechanical data

UNIT		A	C	D	E	H_E	d	e	∠
mm	max	1.1	0.22	3.5	3.5	4.0	2.6	0.5	7°
	min	0.96	0.15	3.3	3.3	3.6	2.4	0.4	
mil	max	44	8.7	137	137	276	103	20	
	min	38	5.9	130	130	252	94	15	

The recommended mounting pad size