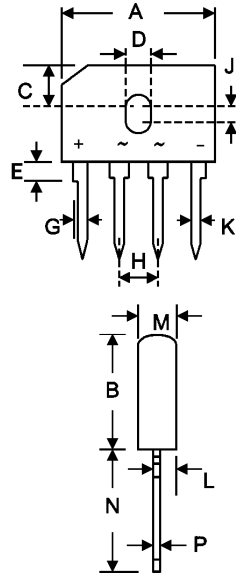


8.0A ULTR-FASTGLASS PASSIVATED BRIDGE RECTIFIER

FEATURES

- * Glass Passivated Die Construction
- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability
- * High-Switching Speed 100 Nanosecond Recovery Time



UBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	7.40	7.90
D	3.50	4.10
E	1.52	2.03
G	2.16	2.54
H	4.83	5.33
J	1.65	2.16
K	1.65	2.03
L	0.76	1.02
M	3.30	3.56
N	17.50	18.00
P	0.46	0.56
Unit :mm		

MECHANICAL DATA

- * Case: Molded Plastic
- * Epoxy: UL94V-O rate flame retardant
- * Terminals : Plated Leads Solderable
Per MIL-STD-202 Method 208
- * Polarity : As Marking on Body
- * Mounting Position: Any
- * Weight : 4.0 gram (approx.)
- * Marking:Type Number

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- * Rating at 25 ambient temperature unless otherwise specified
- * Single phase, half wave. 60Hz, resistive or inductive load.
- * For capacitive load derate current by 20 %

Characteristic	Symbol	UGU8A	UGU8B	UGU8D	UGU8G	UGU8J	UGU8K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	V
Average Rectifier Forward Current @ $T_C=100$ @ $T_A=45$	$I_{O(AV)}$	8.0 6.0						A
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load	I_{FSM}	200						A
Forward Voltage (per element) ($I_F=4.0$ Amp)	V_{FM}	1.0						V
Peak Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 100$)	I_R	5.0 500						μ A
$I^2 t$ Rating for Fusing($t<8.35MS$)	$I^2 t$	166						A^2s
Typical Thermal Resistance (per leg)(note 1)	$R_{\theta JA}$	18						k/W
Typical Thermal Resistance (per leg)(note 2)	$R_{\theta JC}$	3.0						k/W
Reverse Recovery Time ($I_F = 0.5$ A, $I_R = 1.0$, $I_{rr} = 0.25$ A)	T_{rr}	100						ns
Operating and Storage Temperature Range	T_J , T_{stg}	-65 to +150						

Note: 1. Thermal resistance junction to ambient, mounted on PCB at 9.5mm lead length with 12 mm² copper pads.
2. Thermal resistance junction to case, mounted on 7.5x7.5x0.3 cm thick AL plate.

UGU8A thru UGU8K

FIG-1 FORWARD CURRENT DERATING CURVE

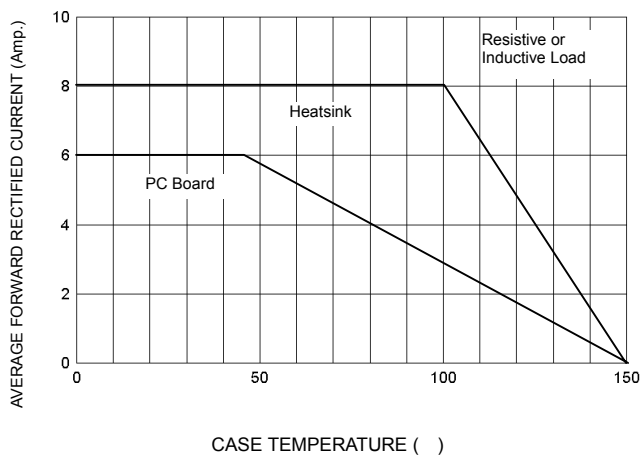


FIG-2 TYPICAL FORWARD CHARACTERISTICS

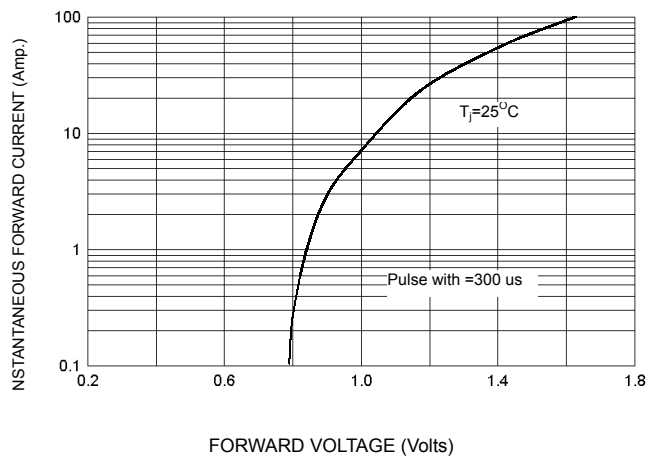


FIG-3 PEAK FORWARD SURGE CURRENT

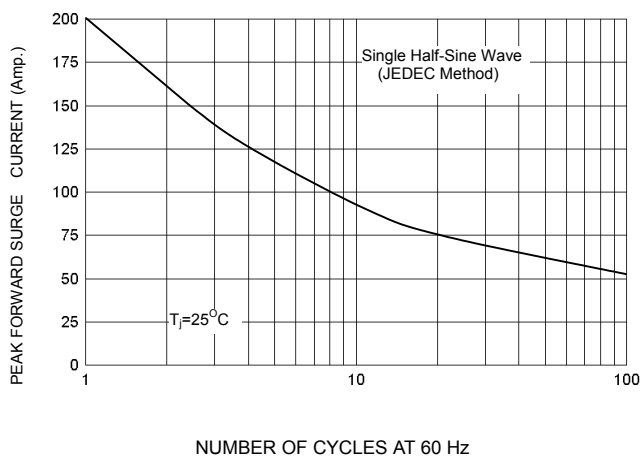


FIG-4 TYPICAL JUNCTION CAPACITANCE

