

EU2BG THRU EU2JG

ULTRAFAST EFFICIENT PLASTIC SILICON RECTIFIER

VOLTAGE: 100 TO 600V

CURRENT: 1.0A



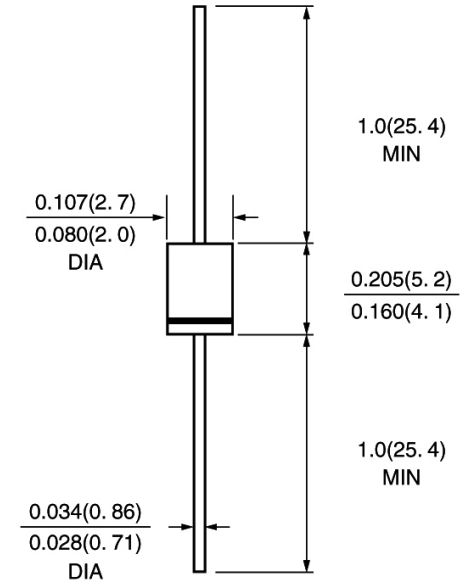
FEATURE

Low power loss
High surge capability
Glass passivated chip junction
Ultra-fast recovery time for high efficiency
High temperature soldering guaranteed
250°C/10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO-41\DO-204AL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	EU2BG	EU2DG	EU2GG	EU2JG	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	100	200	400	600	V
Maximum RMS Voltage	V _{rms}	70	140	280	420	V
Maximum DC blocking Voltage	V _{dc}	100	200	400	600	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =55°C	I _{f(av)}	1.2	1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30				A
Maximum Forward Voltage at rated Forward Current and 25°C	V _f	0.9 (IF=1.2A)	1.4 (IF=1.0A)			V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r		10			µA
			50			µA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	50	75			nS
Typical Junction Capacitance (Note 2)	C _j		17		15	pF
Typical Thermal Resistance (Note 3)	R(ja)		50		60	°C/W
Storage and Operating Temperature Range	T _{stg} , T _j	-65 to +175				°C

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES EU2BG THRU EU2JG

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FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE

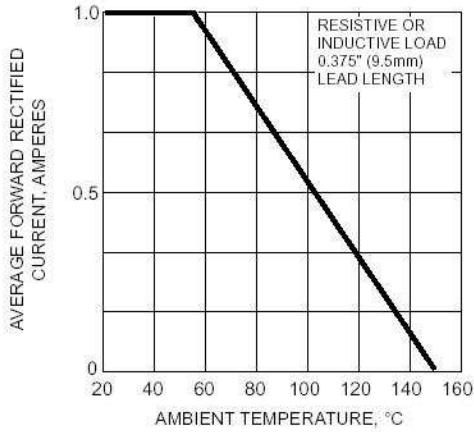


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

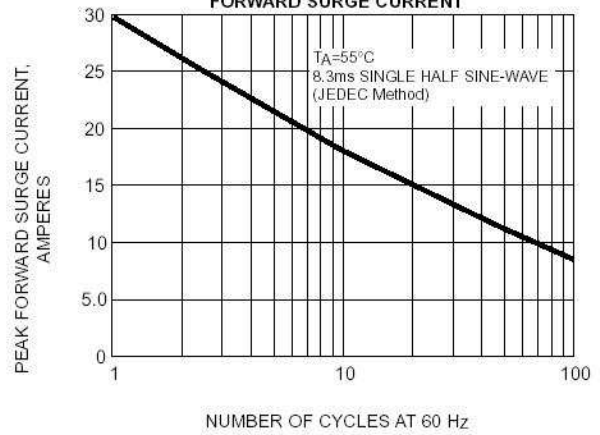


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

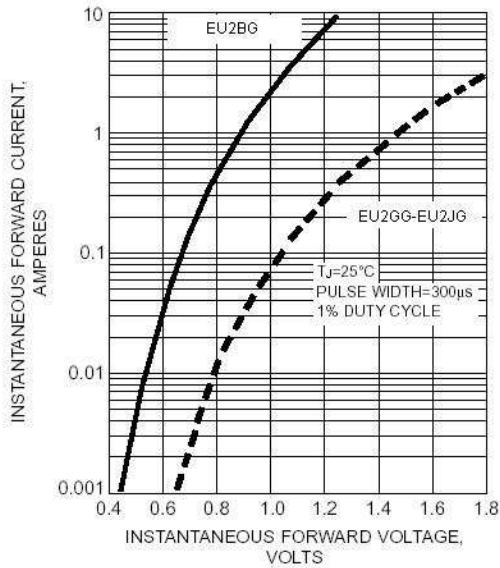


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

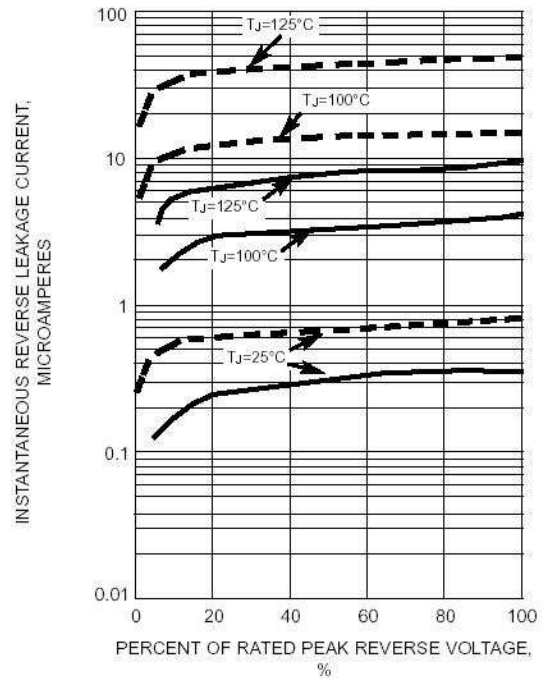


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

