

UG2001 thru UG2007

ULTRA FAST GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes

FEATURES

- Glass passivated chip
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- Plastic material has UL flammabitily classification 94V-0

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic
Polarity: Color band denotes cathode
Weight: 0.015 ounces, 0.4 grams

• Mounting position : Any

DO-15 A B A C C

	DO-15					
Dim.	Min.	Max.				
Α	25.4	-				
В	5.80	7.60				
С	0.71 Ø	0.86 Ø				
D	2.60 Ø	3.60 Ø				
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	UG2001	UG2002	UG2003	UG2004	UG2005	UG2006	UG2007	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=55°C	I(AV)				2.0				Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	IFSM				60	_			А
Maximum forward Voltage at 2.0A DC	VF		1.0		1.3		1.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =100°C	lr				5 100				uA
Maximum Reverse Recovery Time (Note 1)	TRR		50	1			75		ns
Typical Junction Capacitance (Note 2)	Сл		30)			15		pF
Typical Thermal Resistance (Note 3)	Reja Rejl Rejc				45 20 15				°C/W
Storage / Operatiing Temperature Range	Tstg, TJ				55 to +15	0			°C

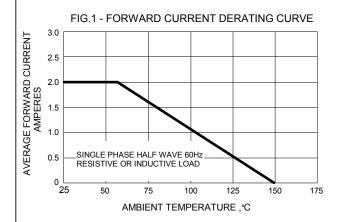
NOTES: 1.Test condition of Trr:IF=0.5A,Ir=1.0A,Irr=0.25A..

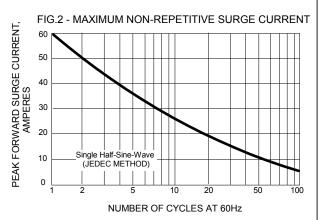
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

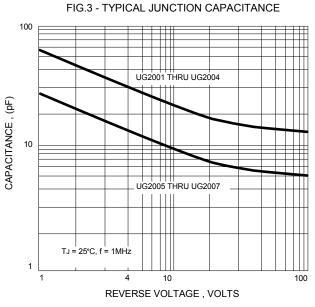
 ${\bf 3. Thermal\ Resistance\ Junction\ to\ Ambient,\ Lead\ and\ Case.}$

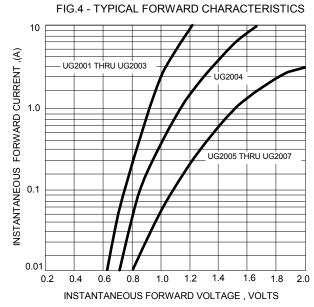
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