UG1A THRU UG1D

ULTRAFAST EFFICIENT PLASTIC SILICON RECTIFIER

VOLTAGE: 50 TO 200V 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

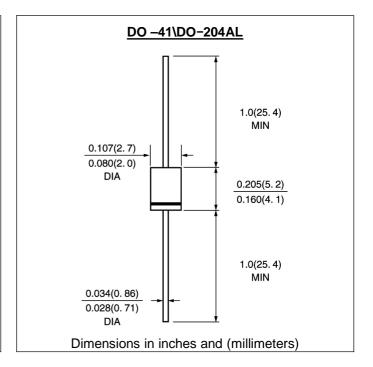
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

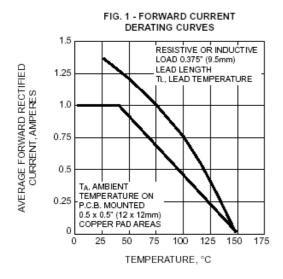
	SYMBOL	UG	UG	UG	UG	units
		1A	1B	1C	1D	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	V
Maximum RMS Voltage	Vrms	35	70	105	140	V
Maximum DC blocking Voltage	Vdc	50	100	150	200	V
Maximum Average Forward Rectified Current 3/8″ lead length at Ta =75℃	If(av)	1.0				А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	40.0				А
Maximum Forward Voltage at Forward current 1A Peak	Vf	0.95			V	
Maximum DC Reverse Current Ta =25℃	lr	5.0				μА
at rated DC blocking voltage Ta =125 $^{\circ}$ C		200.0				μА
Maximum Reverse Recovery Time (Note 1)	Trr	15				nS
Typical Junction Capacitance (Note 2)	Cj	7.0				pF
Typical Thermal Resistance (Note 3)	R(ja)	60.0				°C/W
Storage and Operating Junction Temperature	Tstg,Tj	-55 to +150				°C

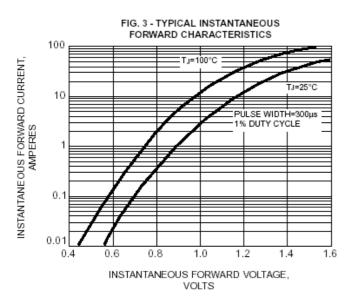
Note:

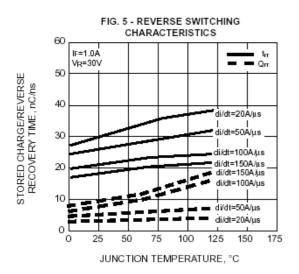
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

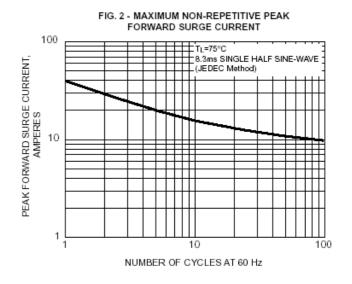
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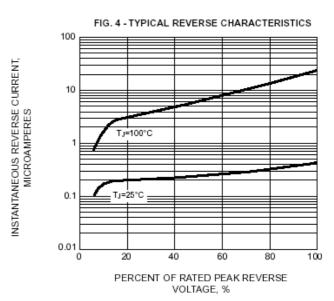
RATINGS AND CHARACTERISTIC CURVES UG1A THRU UG1D

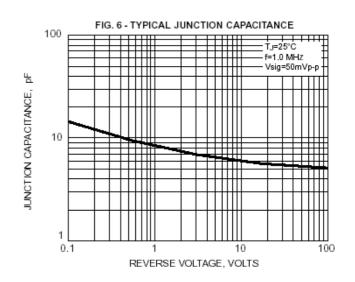












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