

1F1G thru 1F7G

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

FEATURES

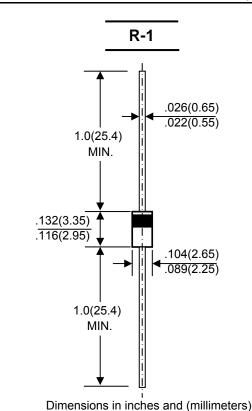
- Fast switching for high efficiency
- Low cost
- Glass Passivated Chip
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

●Case: JEDEC R-1 molded plastic

Polarity: Color band denotes cathode

Weight: 0.15 gramsMounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

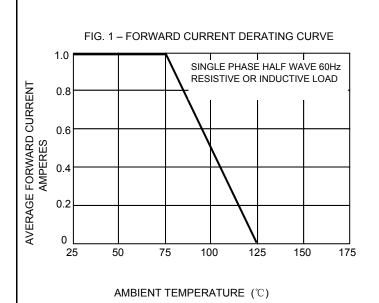
CHARACTERISTICS	SYMBOL	1F1G	1F2G	1F3G	1F4G	1F5G	1F6G	1F7G	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current @Ta=75 ℃	I(AV)	1.0							А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	lғsм	30							А
Peak Forward Voltage at 1.0A DC	VF	1.3					V		
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lr	5.0 100							μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	150			250	500		nS	
Typical Junction Capacitance (Note2)	Cı	25			15			pF	
Typical Thermal Resistance (Note3)	Reja	25						°C/W	
Operating Temperature Range	TJ	-55 to +150						$^{\circ}\!$	
Storage Temperature Range	Тѕтс	-55 to +150						$^{\circ}$	

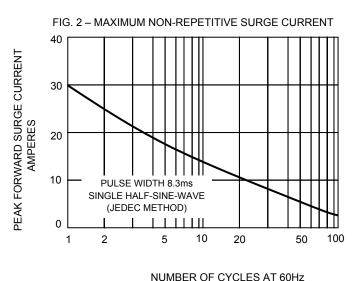
NOTES: 1.Measured with IF=0.5A,IR=1A,IRR=0.25A

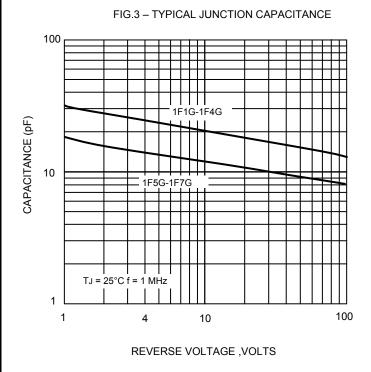
- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
- 3. Thermal resistance junction to ambient.
- 4.The typical data above is for reference only(典型值仅供参考).

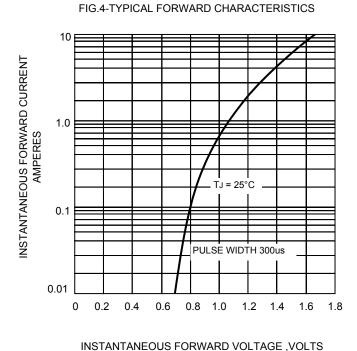
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The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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