

# Fast Rectifiers (Glass Passivated)

Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Units						
		10A	10B	10D	10G	10J	10K	10M	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
I <sub>F(AV)</sub>	Average Rectified Forward Current, .375 " lead length @ T <sub>L</sub> = 55°C	1.0						А	
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30						А	
T <sub>stg</sub>	Storage Temperature Range	-65 to +175						°C	
TJ	Operating Junction Temperature	-65 to +175					°C		

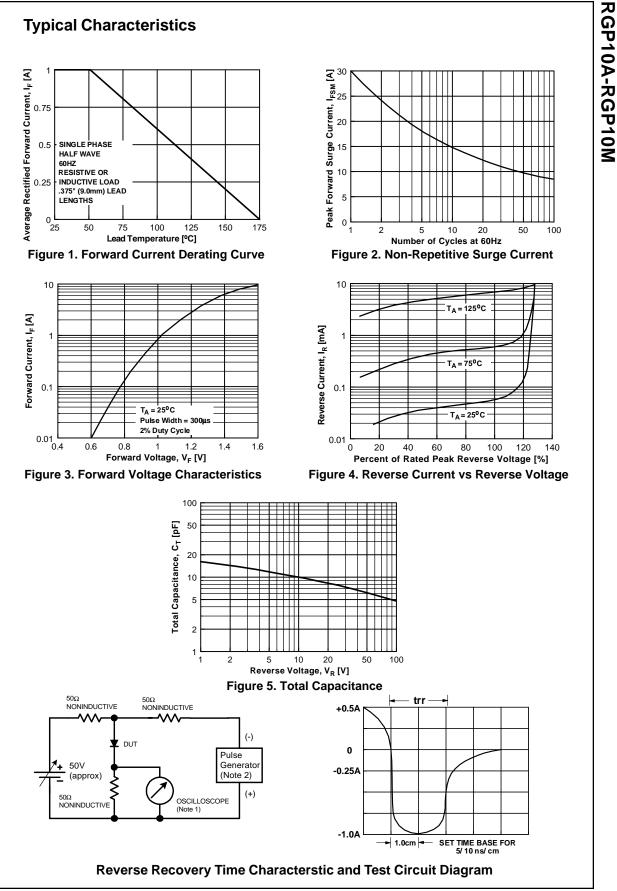
\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

## **Thermal Characteristics**

Symbol	Parameter	Value	Units	
P <sub>D</sub>	Power Dissipation	3.0	W	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	50	°C/W	

### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Units					
		10A	10B	10D	10G	10J	10K	10M
V <sub>F</sub>	Forward Voltage @ 1.0 A	1.3					V	
t <sub>rr</sub>	Reverse Recovery Time $I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A$	150 250 500				00	ns	
I <sub>R</sub>	Reverse Current @ rated $V_R T_A = 25^{\circ}C$ $T_A = 150^{\circ}C$	5.0 200						μΑ μΑ
C <sub>T</sub>	Total Capacitance $V_R = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	15					pF	



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RPG10A - RPG10M, Rev. C

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