

Fast Rectifiers (Glass Passivated)

Absolute Maximum Ratings^{*} $T_{A} = 25 \,^{\circ} C$ unless otherwise noted

Symbol	Parameter		Units						
		10A	10B	10D	10G	10J	10K	10M	
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified Forward Current, .375 " lead length @ T ₁ = 55°C	1.0					А		
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30						А	
T _{stg}	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.

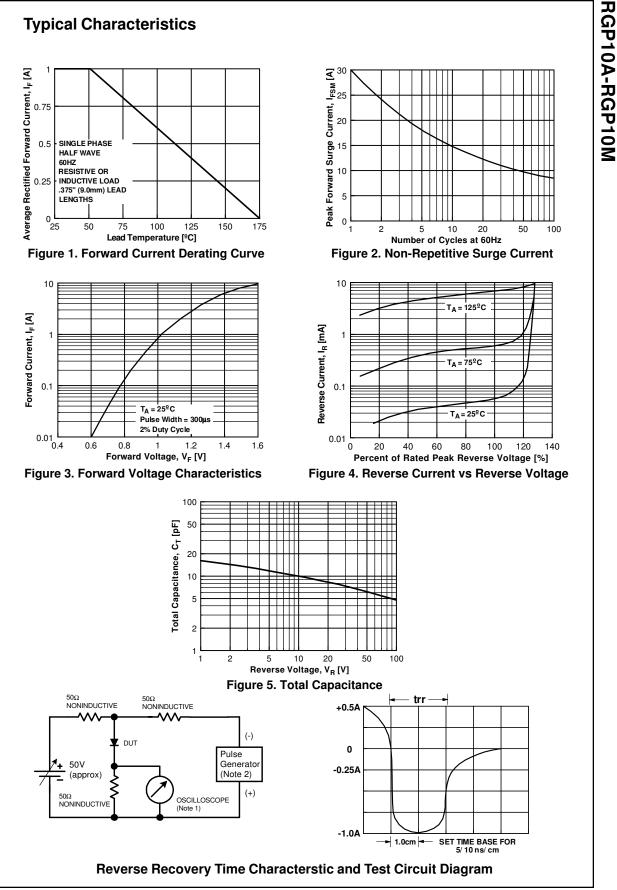
Thermal Characteristics

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

Electrical Characteristics T_A = 25 °C unless otherwise noted

Symbol	Parameter		Units						
		10A	10B	10D	10G	10J	10K	10M	
V _F	Forward Voltage @ 1.0 A	1.3					V		
t _{rr}	Reverse Recovery Time $I_F = 0.5 A$, $I_B = 1.0 A$, $I_{rr} = 0.25 A$	150 250 500					ns		
I _R	Reverse Current @ rated $V_R T_A = 25^{\circ}C$ $T_A = 150^{\circ}C$	5.0 200						μΑ μΑ	
C _T	Total Capacitance $V_{B} = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	15					pF		

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RPG10A - RPG10M, Rev. C

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