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Features

- · Superfast recovery time for high efficiency
- · Low forward voltage, high current capability
- · Low leakage current
- · High surge current capability



DO-41 Glass case

COLOR BAND DENOTES CATHODE

Absolute Maximum Ratings* T_a = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
I _O	Average Rectified Current .375 " lead length @ T∟ = 75°C	1.0	A
İ _{f(surge)}	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	30	A
P _D	Total Device Dissipation Derate above 25°C	2.5 17	W mW°C
I _C	Thermal Resistance, Junction to Ambient	50	°C/W
T _J , T _{STG}	Junction and Storage Temperature Range	-65 ~ 150	°C

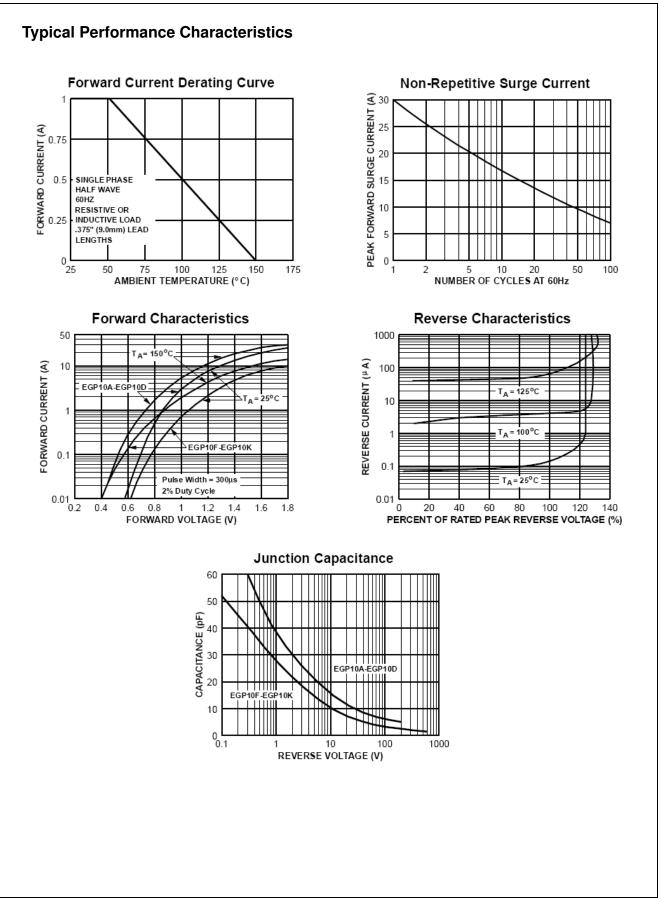
* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

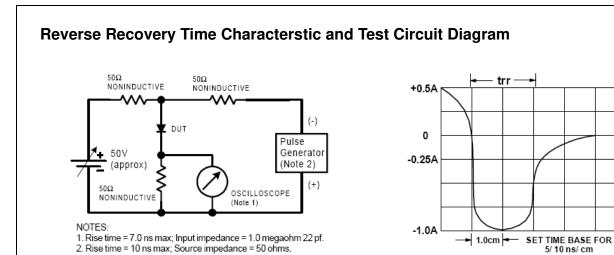
Electrical Characteristics* T_a = 25°C unless otherwise noted

Device Parameter 10A 10B 10C 10D 10F 10G 10J 10K Units Peak Repetitive Reverse Voltage 50 100 150 200 300 400 600 800 v 70 v 35 140 280 420 Maximum RMS Voltage 105 210 560 DC Reverse Voltage (Rated VR) 50 100 150 200 300 400 600 800 V Maximum Reverse Current @ rated VR TA = 25°C 5.0 μΑ TA = 125°C 100 μA Maximum Reverse Recovery Time 50 75 nS IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A Maximum Forward Voltage @ 1.0 A 0.95 1.25 1.7 V **Typical Junction Capacitance** 22 15 pF VR = 4.0 V, f = 1.0 MHz

* Pulse Test: Pulse Width≤300µs, Duty Cycle≤2%

July 2007







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