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



DO-201AD 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∟= 55°C	3.0	A
İ _{f(surge)}	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	125	A
P _D	Total Device Dissipation Derate above 25°C	6.25 50	W mW°C
Reja	Thermal Resistance, Junction to Ambient	20	°C/W
Rejl	Thermal Resistance, Junction to Lead	8.5	°C/W
T _J , T _{STG}	Junction and Storage Temperature Range	-65 ~ 150	°C

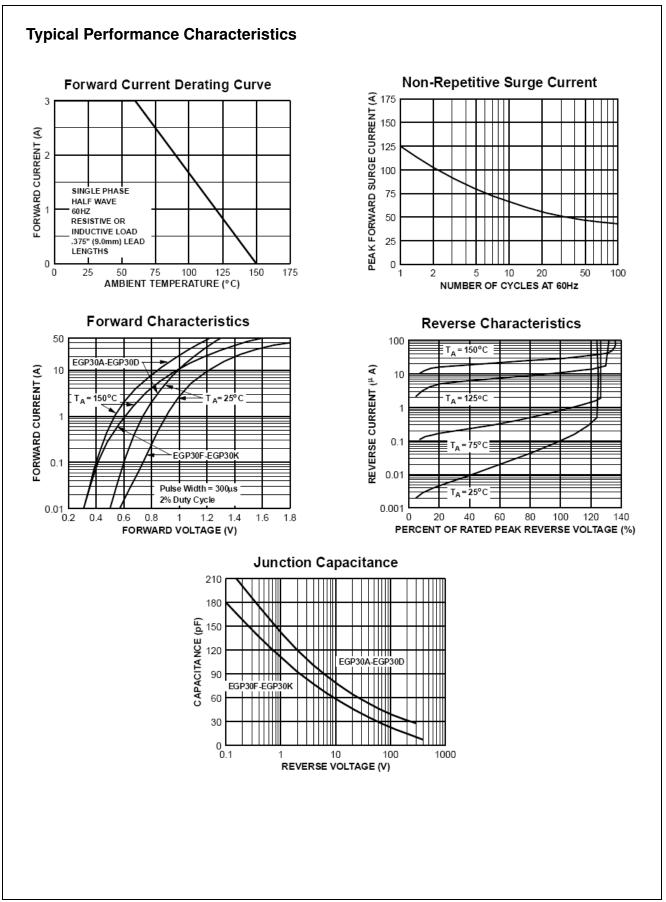
* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

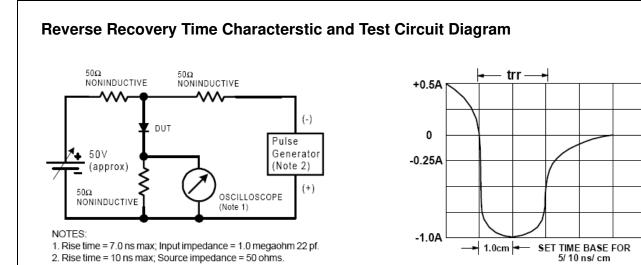
Electrical Characteristics^{*} $T_a = 25^{\circ}C$ unless otherwise noted

	Device								
Parameter	30A	30B	30C	30D	30F	30G	30J	30K	Units
Peak Repetitive Reverse Voltage	50	100	150	200	300	400	600	800	V
Maximum RMS Voltage	35	70	105	140	210	280	420	560	V
DC Reverse Voltage (Rated VR)	50	100	150	200	300	400	600	800	V
Maximum Reverse Current @ rated VR TA = 25°C TA = 125°C	5.0 100					μΑ μΑ			
Maximum Reverse Recovery Time IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A	50 75								nS
Maximum Forward Voltage @ 3.0 A	0.95 1.25					25	1.7		V
Typical Junction Capacitance VR = 4.0 V, f = 1.0 MHz		95 75							pF

* Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 2%

July 2007





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