

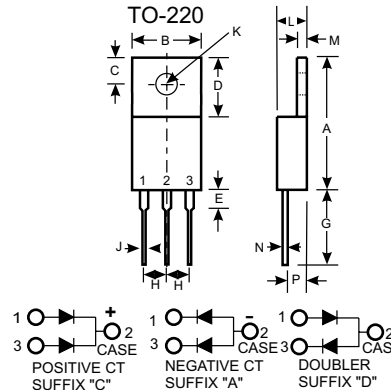
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Features

- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Super-fast Switching Speed < 35ns
- Plastic Material - UL Flammability Rating 94V-0
- Good for 200KHz Power Supplier

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Denotes Cathode
- Approx. Weight: 2.24 grams
- Mounting Position: Any



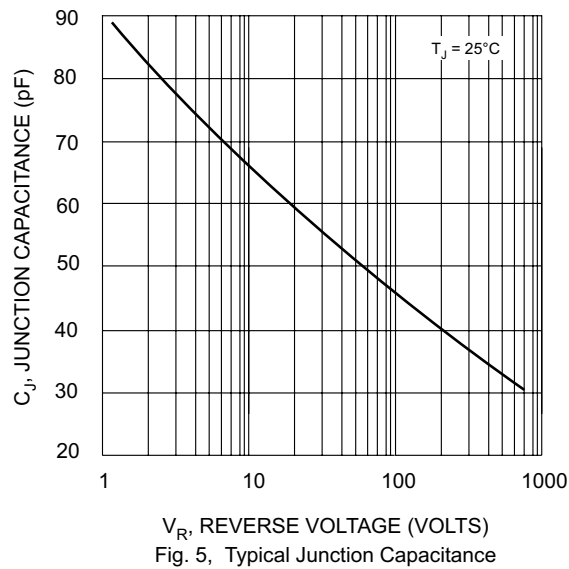
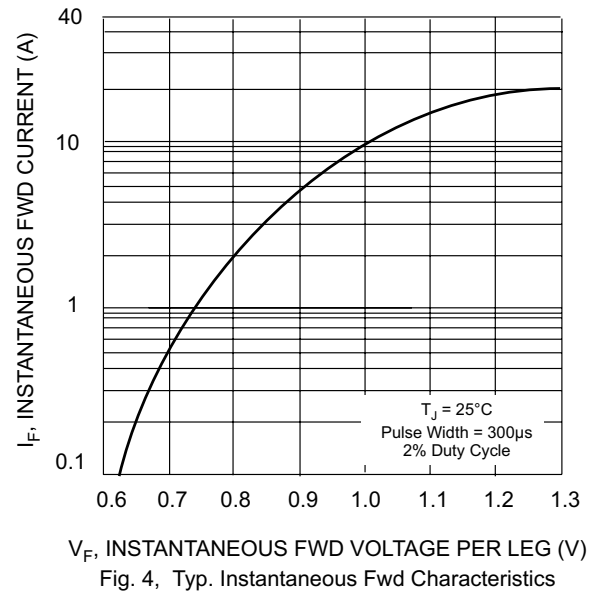
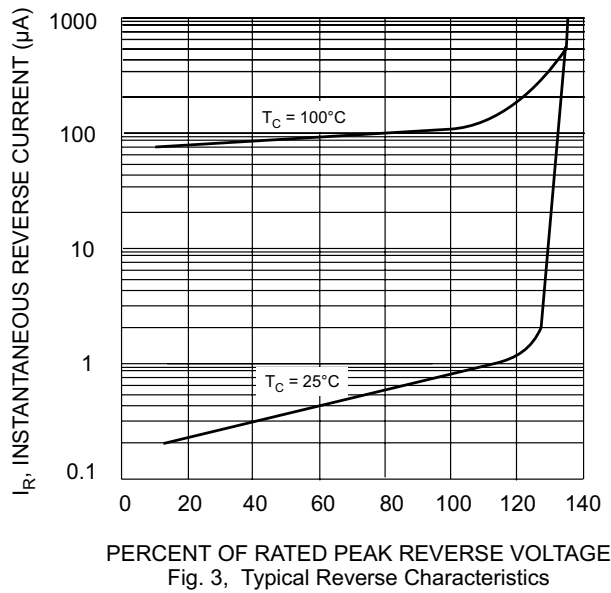
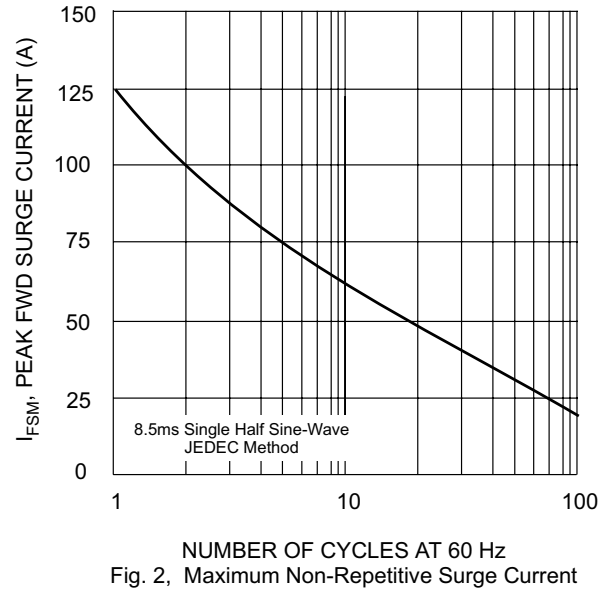
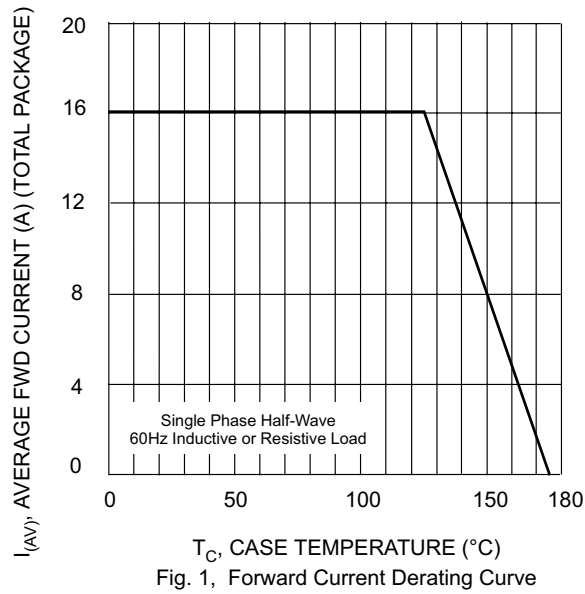
TO-220AB		
Dim	Min	Max
A	14.22	15.88
B	9.65	10.67
C	2.54	3.43
D	5.84	6.86
E	—	6.35
G	12.70	14.73
H	2.29	2.79
J	0.51	1.14
K	3.53Ø	4.09Ø
L	3.56	4.83
M	1.14	1.40
N	0.30	0.64
P	2.03	2.92
Q	4.83	5.33
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	SF161	SF162	SF163	SF164	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	V
Maximum Average Forward Rectified Current Total Package @ $T_C = 125^\circ\text{C}$	$I_{(AV)}$	16				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125				A
Maximum Instantaneous Forward Voltage at 8.0A DC per leg	V_F	0.975				V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$	I_R	10 150				μA
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	2				K/W
Maximum Reverse Recovery Time (Note 1)	T_{rr}	35				ns
Typical Junction Capacitance (Note 2)	C_J	75				pF
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175				$^\circ\text{C}$

Notes: 1. Reverse Recovery Test Conditions: $F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{RR} = 0.25\text{ A}$.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V.



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