

Maximum Ratings (Per Leg) @T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitance load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	45	V
DC Blocking Voltage	V _{RM}		
Average Rectified Output Current	I _O	10	A
(Per Leg)			
(Total)		20	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	150	A
Isolation Voltage	V _{AC}	2000	V
From terminal to heatsink t = 1min.			

Thermal Characteristics (Per Leg)

Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance Junction to Case	R _{θJC}	3	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

Electrical Characteristics (Per Leg) @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	V _F	-	0.59	0.65	V	I _F = 10A, T _J = 25°C
		-	0.55	-		I _F = 10A, T _J = 125°C
Leakage Current (Note 2)	I _R	-	6	100	μA	V _R = 45V, T _J = 25°C
		-	-	15	mA	V _R = 45V, T _J = 125°C

Notes: 2. Short duration pulse test used to minimize self-heating effect.
 3. Device mounted on Black Aluminum Heatsink, 45mm * 20mm * 12mm.

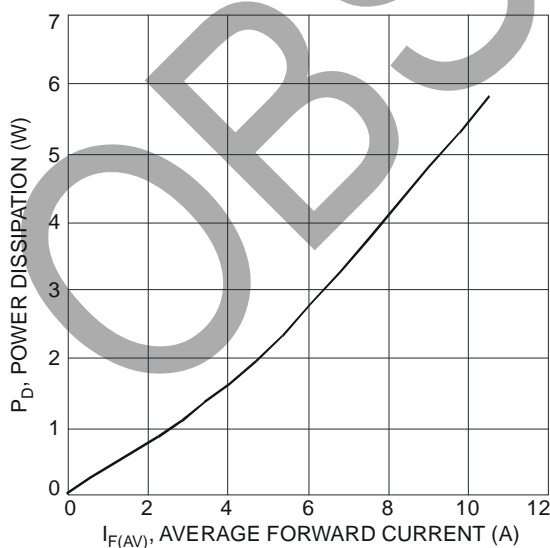


Fig. 1 Forward Power Dissipation

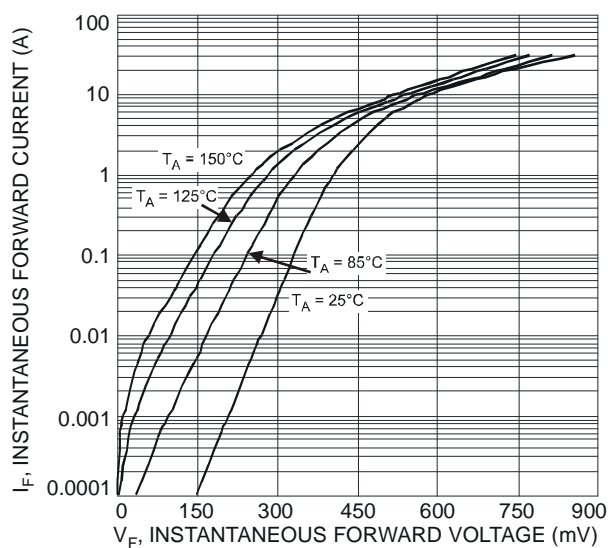


Fig. 2 Typical Forward Characteristics

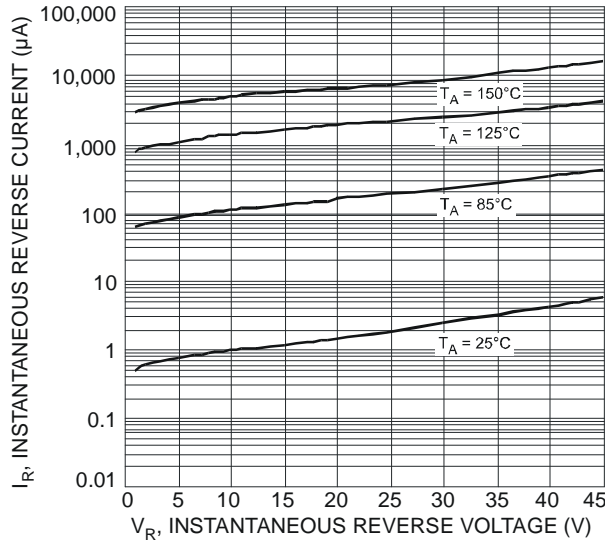


Fig. 3 Typical Reverse Characteristics

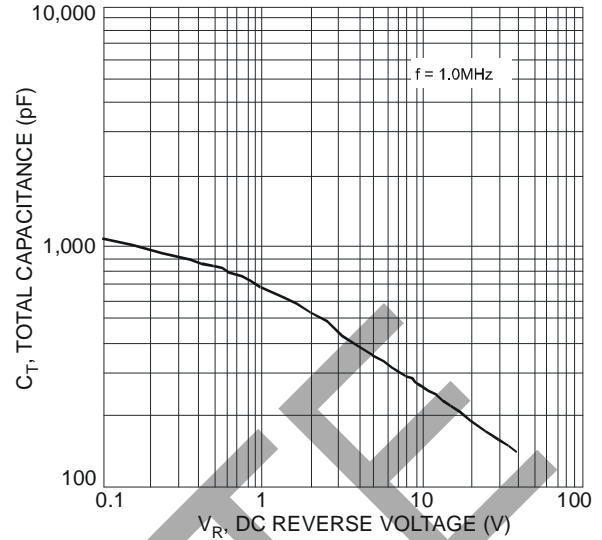


Fig. 4 Total Capacitance vs. Reverse Voltage

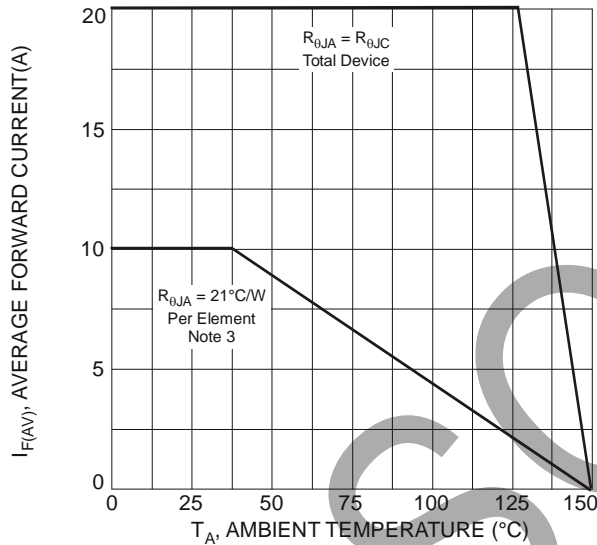


Fig. 5 Forward Current Derating Curve

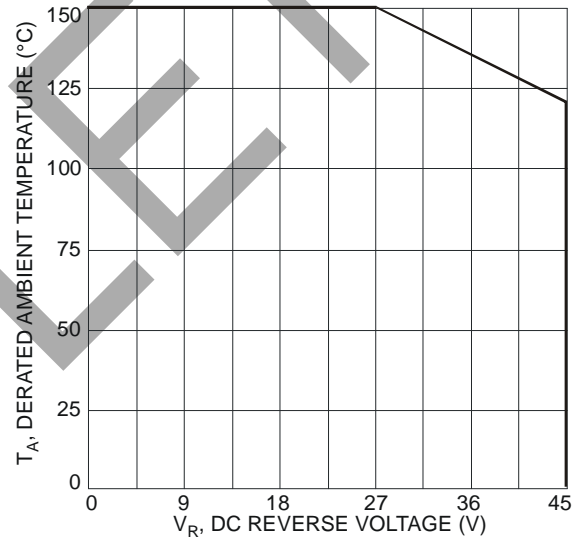
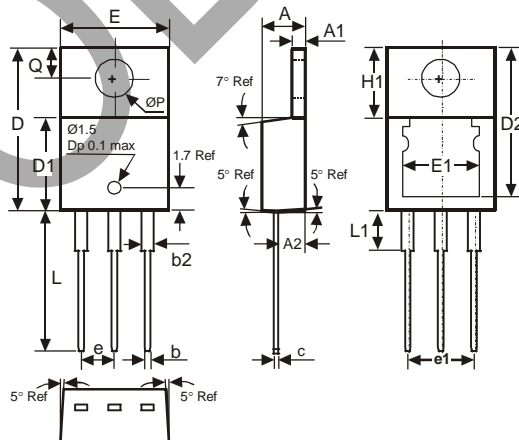


Fig. 6 Operating Temperature Derating

Package Outline Dimensions



ITO-220S			
DIM.	MIN.	MAX.	TYP.
A	4.52	4.62	4.57
A1	1.17	1.39	—
A2	2.57	2.77	2.67
b	0.72	0.95	0.84
b2	1.15	1.54	1.26
c	0.356	0.61	—
D	14.22	16.51	15.00
D1	8.60	8.80	8.70
D2	13.68	14.08	—
e	2.49	2.59	2.54
e1	4.98	5.18	5.08
E	10.01	10.21	10.11
E1	6.86	8.89	—
H1	5.85	6.85	—
L	13.30	13.90	13.60
L1	—	6.35	—
P	3.54	4.08	—
Q	2.54	3.42	—
All Dimensions in mm			

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