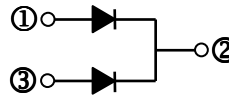
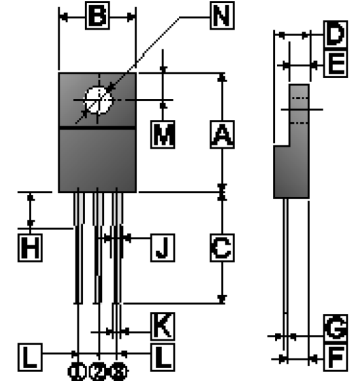


RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

- Ultra low forward voltage drop
- Excellent high temperature stability
- Patented super barrier rectifier technology
- Soft, fast switching capability

ITO-220D



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.50	15.50	H	3.30	4.30
B	9.50	10.50	J	0.90	1.50
C	13.0	14.0	K	0.30	0.90
D	4.24	4.84	L	2.35	2.75
E	2.52	2.92	M	2.50	2.90
F	2.68	2.71	N	φ3.2	φ3.8
G	0.47	0.64			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	120	V
Maximum RMS Voltage	V _{RMS}	84	V
Minimum Breakdown Voltage@ I _R =0.5mA	V _{BR}	120	V
Maximum Average Forward Rectified Current	(Per Leg)	20	A
	(Per Device)	40	
Peak Forward Surge Current@ 8.3 ms single half sine-wave, superimposed on rated load	I _{FSM}	300	A
Typical Thermal Resistance from Junction to Case ¹	R _{θJC}	2	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V _F	0.56	-	V	I _F =5A, T _J =25°C
		0.68	-		I _F =10A, T _J =25°C
		-	0.85		I _F =20A, T _J =25°C
		0.48	-		I _F =5A, T _J =125°C
		0.6	-		I _F =10A, T _J =125°C
		0.75	-		I _F =20A, T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	-	0.05	mA	V _R =120V, T _J =25°C
		12	-		V _R =120V, T _J =125°C

CHARACTERISTIC CURVES

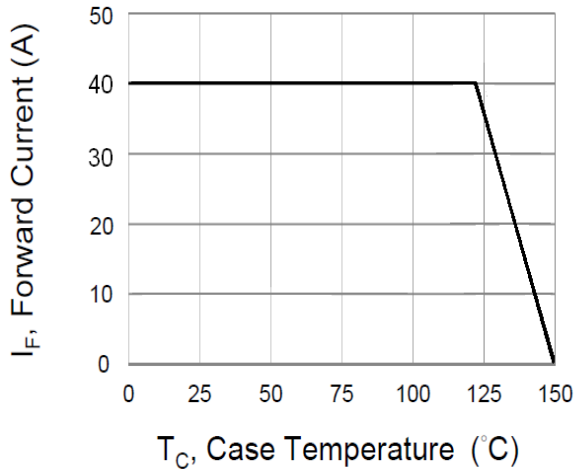


Fig.1 Forward Current Derating Curve

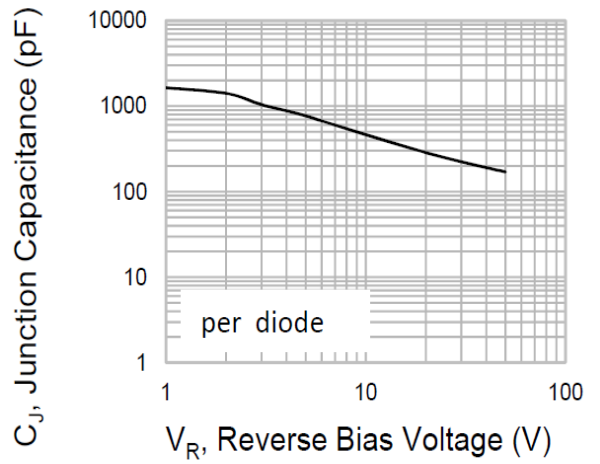


Fig.2 Typical Junction Capacitance

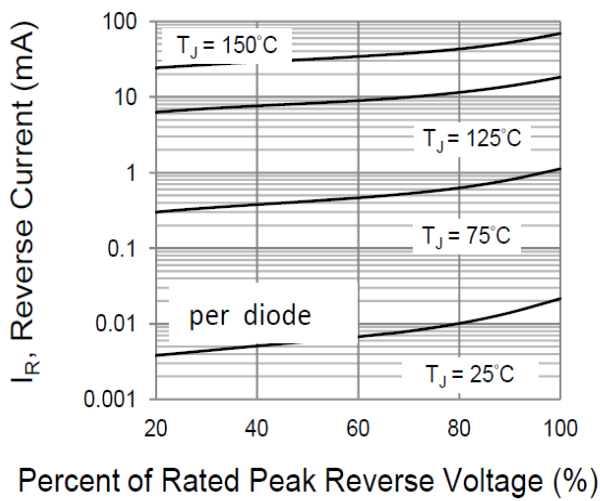


Fig.3 Typical Reverse Characteristics

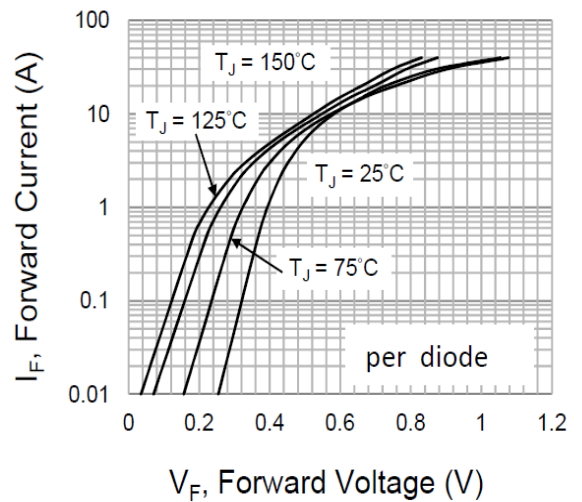


Fig.4 Typical Forward Characteristics