

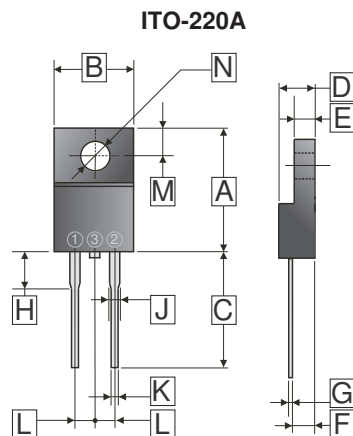
RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

- Fast switching for high efficiency
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

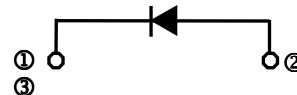
MECHANICAL DATA

- Case : Molded plastic ITO-220A
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solderable per MIL-STD-202 method 208
- Polarity : Color band denotes cathode
- Mounting position : Any
- Weight : 1.66 grams



Dimensions in millimeters

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.70	15.30	H	3.50	5.30
B	9.50	10.50	J	1.10	1.50
C	12.40	14.30	K	0.50	0.90
D	4.30	4.70	L	2.44	2.64
E	2.50	3.20	M	2.50	2.90
F	2.40	2.9	N	φ 3.1	φ 3.58
G	0.30	0.70			



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Rectifier Forward Current	$I_{F(AV)}$	15	A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage @ 15A	V_F	1.5	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10 250	μA
Maximum Reverse Recovery Time ¹	T_{RR}	50	nS
Typical Junction Capacitance ²	C_J	65	pF
Thermal Resistance ³	$R_{\theta JC}$	2.2	$^{\circ}C / W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 ~ 175	$^{\circ}C$

Note:

1. Reverse recovery test conditions $I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25 A$.
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts DC.
3. Thermal Resistance junction to case.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

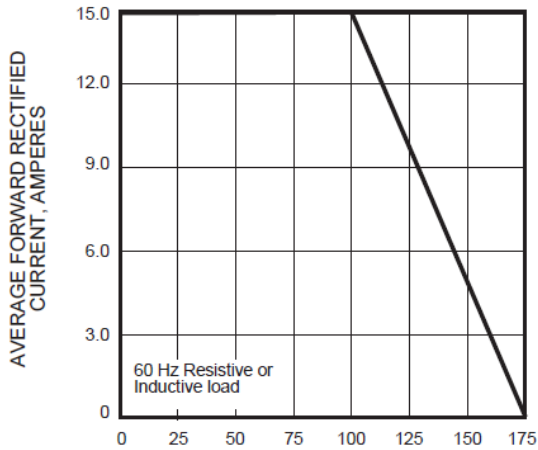
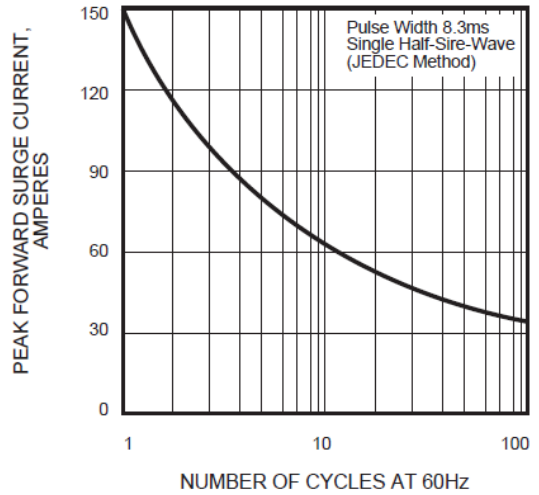


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



FORWARD CHARACTERISTICS

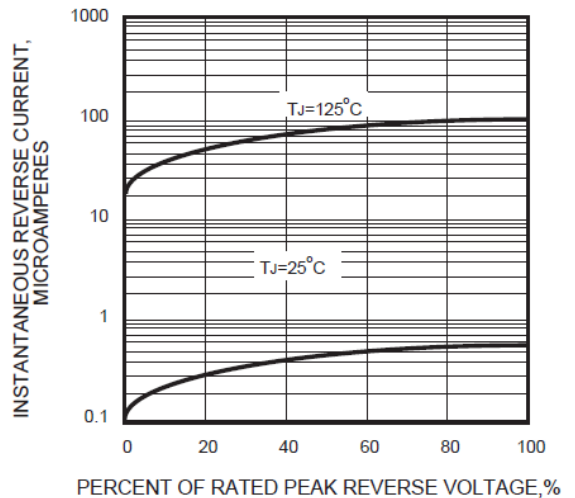
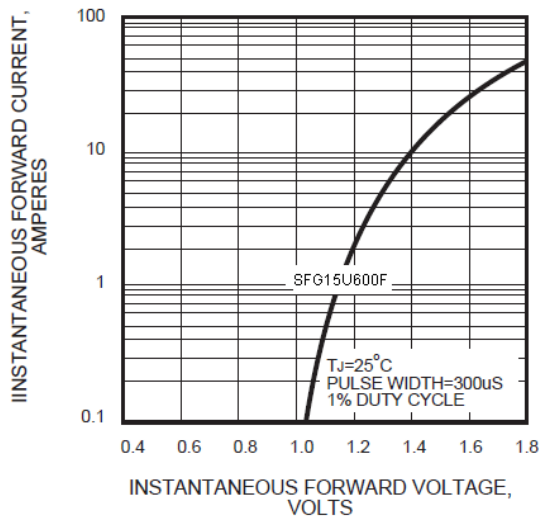


FIG.5 - TYPICAL JUNCTION CAPACITANCE

