U20A3CIC

ULTRA FAST RECOVERY RECTIFIER DIODE

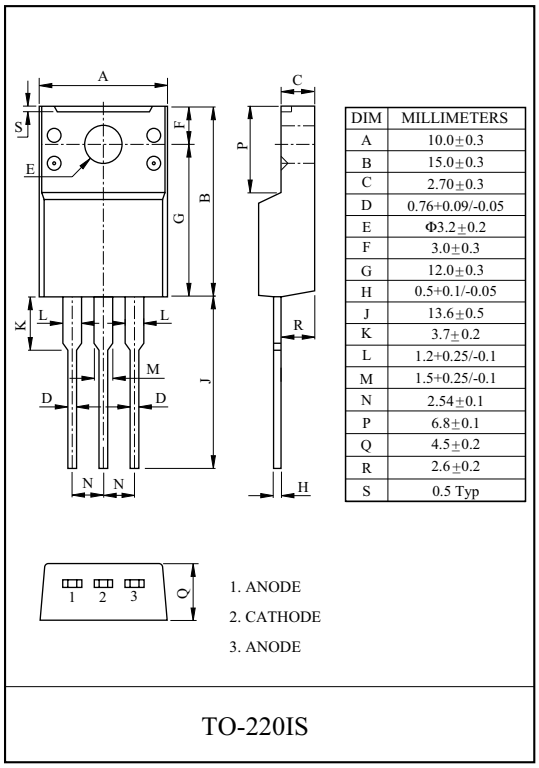
SWITCHING TYPE POWER SUPPLY APPLICATION
CONVERTER & CHOPPER APPLICATION.

FEATURES

- Ultra-Fast Recovery Time for High Efficiency.
- Low Forward Voltage Drop, High Current Capability, and Low Power Loss.

APPLICATION

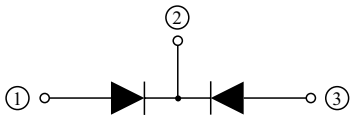
- Switching Power Supply.
- Home Appliances, Office Equipment.
- Telecommunication, Factory Automation.



DIM	MILLIMETERS
A	10.0±0.3
B	15.0±0.3
C	2.70±0.3
D	0.76+0.09/-0.05
E	Φ3.2±0.2
F	3.0±0.3
G	12.0±0.3
H	0.5+0.1/-0.05
J	13.6±0.5
K	3.7±0.2
L	1.2+0.25/-0.1
M	1.5+0.25/-0.1
N	2.54±0.1
P	6.8±0.1
Q	4.5±0.2
R	2.6±0.2
S	0.5 Typ

TO-220IS

POLARITY



MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	350	V
Average Output Rectified Current (Tc=94℃) (Note1)	I_O	20	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	100 (60Hz)	A
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55~150	℃

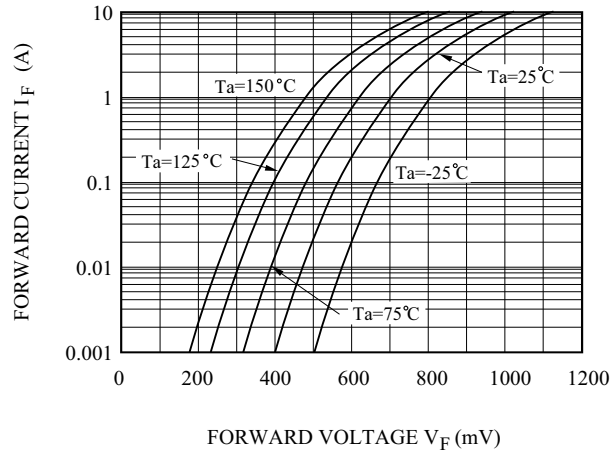
(Note1) : Average forward current of centertap full wave connection.

ELECTRICAL CHARACTERISTICS (Ta=25℃)

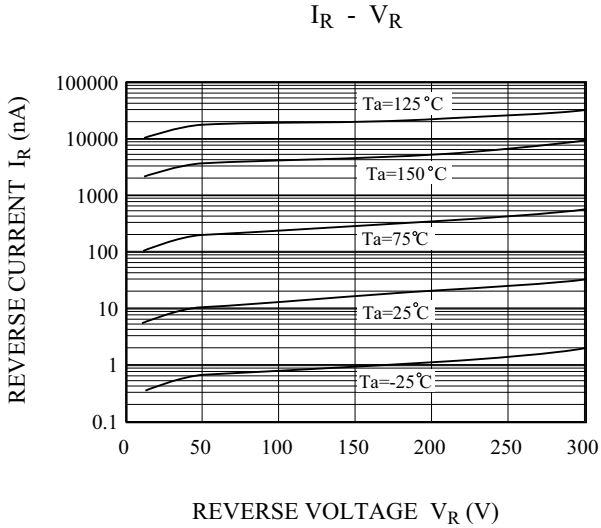
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	(Note2)	V_{FM}	I_{FM}=10A	-	-	1.3	V
Reverse Current	(Note2)	I_{RM}	V_{RM}=300V	-	-	10	μA
Reverse Recovery Time	(Note2)	t_{rr}	I_F=0.5A, I_R=1A, I_{rr}=0.25A	-	-	45	ns
Thermal Resistance	(Note2)	$R_{th(j-c)}$	Junction to Case	-	-	3	℃/W

(Note2) : A Value of one cell.

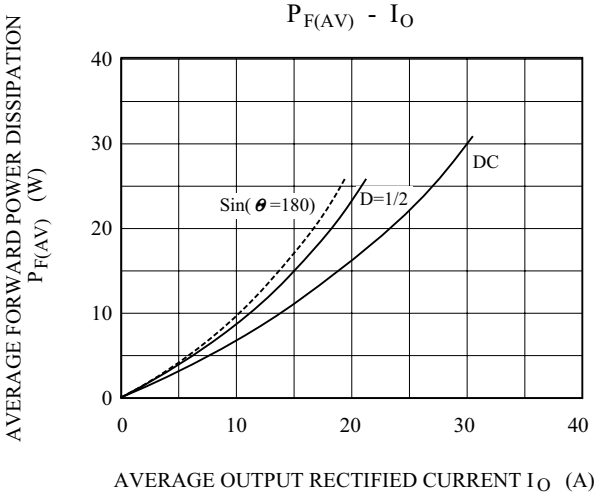
I_F - V_F



I_R - V_R



$P_{F(AV)}$ - I_O



SURGE FORWARD CURRENT
(NON - REPETITIVE)

