

**SWITCHING MODE POWER SUPPLY APPLICATION.  
CONVERTER & CHOPPER APPLICATION.**

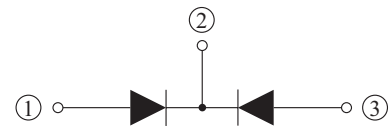
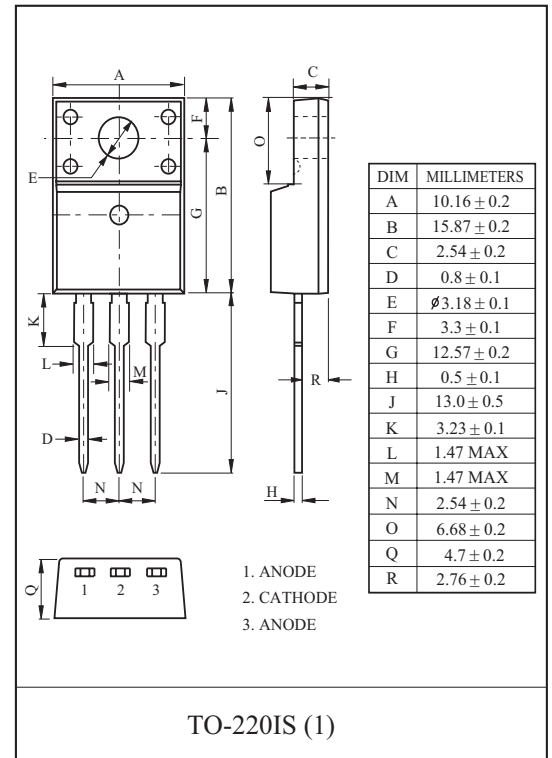
**FEATURES**

- Average Output Rectified Current  
:  $I_O=40A$ .
- Repetitive Peak Reverse Voltage  
:  $V_{RRM}=120V$ .
- Low Forward Voltage.
- Low Reverse Current.
- Molding Compound Flammability Rating : UL 94V-0
- Pb-Free, Halogen-Free, RoHs Compliant

**MAXIMUM RATING (Ta=25 )**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	120	V
Average Output Rectified Current (Tc=110 ) (Note)	$I_O$	40	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	$I_{FSM}$	150	A
Junction Temperature	$T_j$	-40 150	
Storage Temperature Range	$T_{stg}$	-55 150	

Note : average forward current of centertap full wave connection.



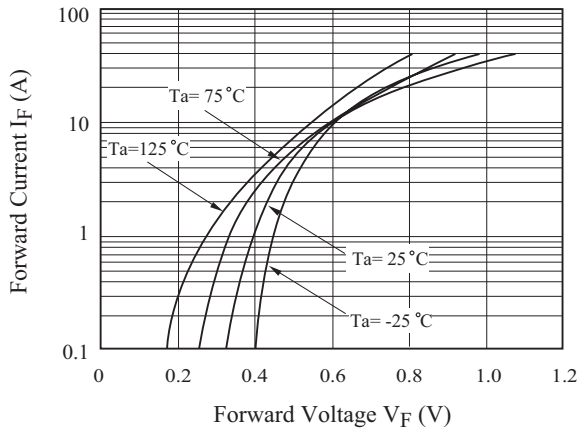
**ELECTRICAL CHARACTERISTICS (Ta=25 )**

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage (Note)	$V_F$	$I_F=1A$	-	0.5	-	V
		$I_F=10A$	-	0.6	-	
		$I_F=20A$	-	0.75	0.85	
Repetitive Peak Reverse Current (Note)	$I_R$	$V_R=120V$	-	10	200	$\mu A$
Thermal Resistance (Note)	$R_{th(j-c)}$	Juction to Case	-	-	4	/W
Reverse Recovery Time (Note)	$t_{rr}$	$I_F=1A, V_R=30V, di/dt=-50A/us$	-	35	40	nS

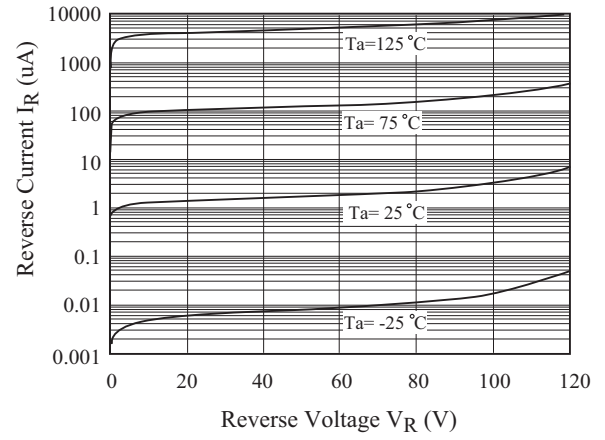
Note : A value of one cell

# TMBRF40120CT

$I_F - V_F$



$I_R - V_R$



$C_T - V_R$

