

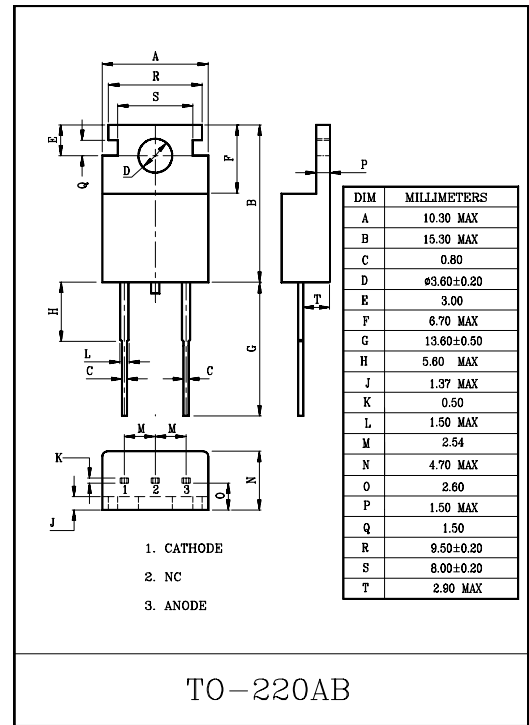
SWITCHING TYPE POWER SUPPLY APPLICATION.  
CONVERTER & CHOPPER APPLICATION.

### FEATURES

- Average Output Rectified Current  
:  $I_O=10A(T_c=135^\circ C)$ .
- Repetitive Peak Reverse Voltage  
:  $V_{RRM}=45V$ .
- Fast Reverse Recovery Time :  $t_{rr}=35nS$ .
- Low Peak Forward Voltage :  $0.55V.(Typ.)$

### MAXIMUM RATINGS ( $T_a=25^\circ C$ )

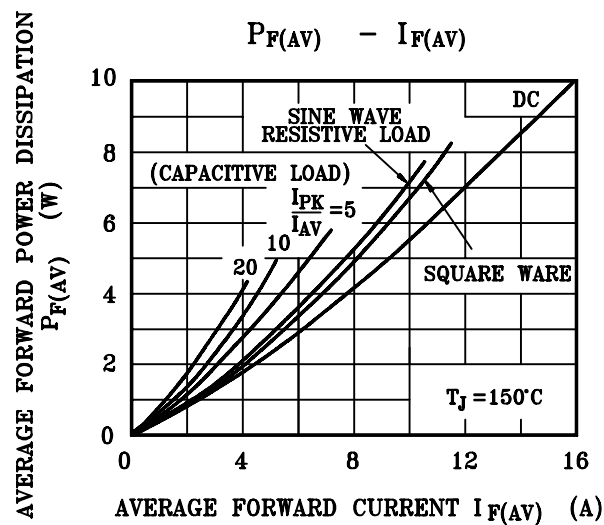
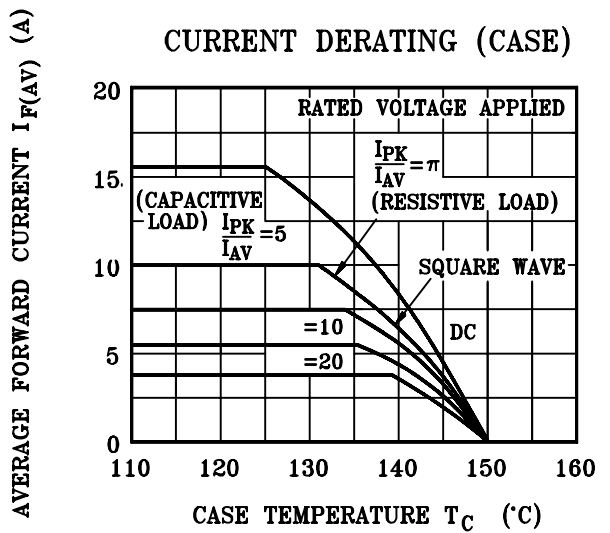
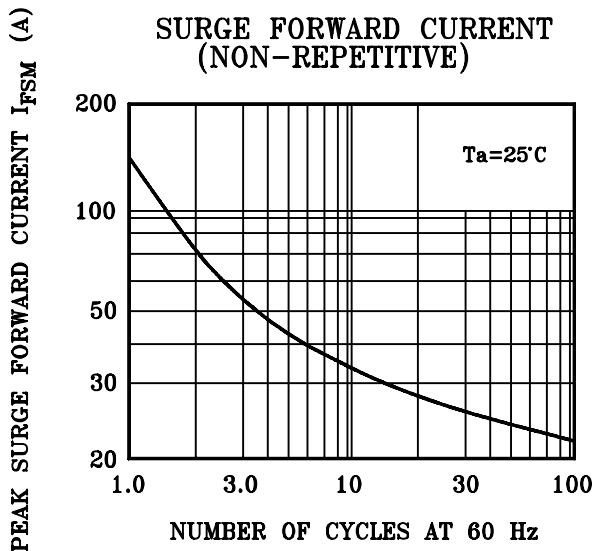
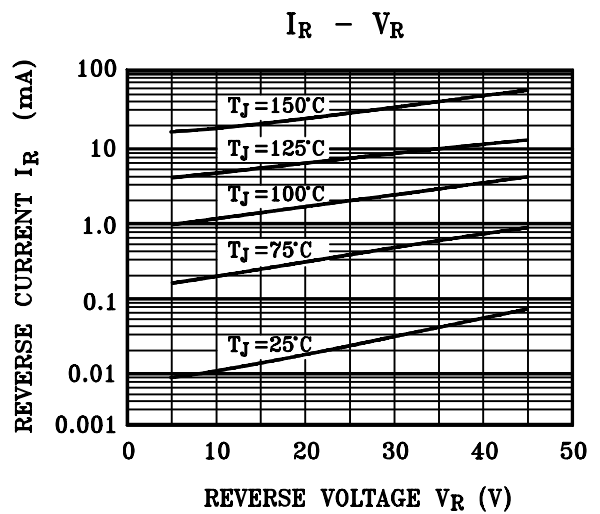
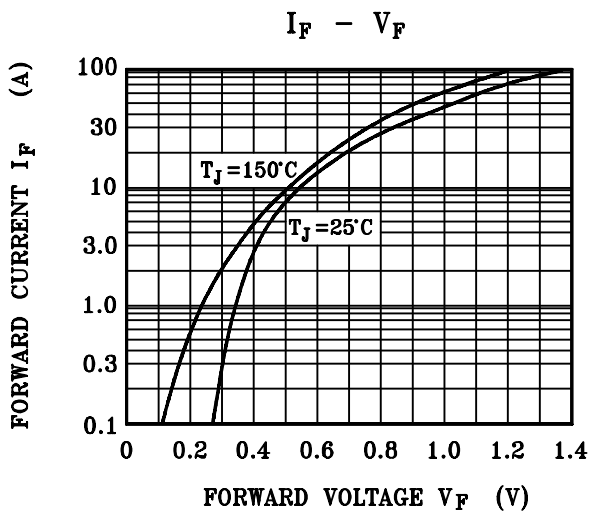
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	45	V
Average Output Rectified Current ( $T_c=135^\circ C$ )	$I_O$	10	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	$I_{FSM}$	150	A
Junction Temperature	$T_j$	-40~150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55~150	$^\circ C$



### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=10A, T_c=25^\circ C$	-	0.55	0.58	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=\text{Rated}$	-	-	0.5	mA
Reverse Recovery Time	$t_{rr}$	$I_F=1.0A, di/dt=-20A/\mu S$	-	-	35	nS
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	2.0	$^\circ C/W$

# B10A45V



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