

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

## FEATURES

- Average Forward Current :  $I_O=50A$ .
- Repetitive Peak Reverse Voltage :  $V_{RRM}=200V$

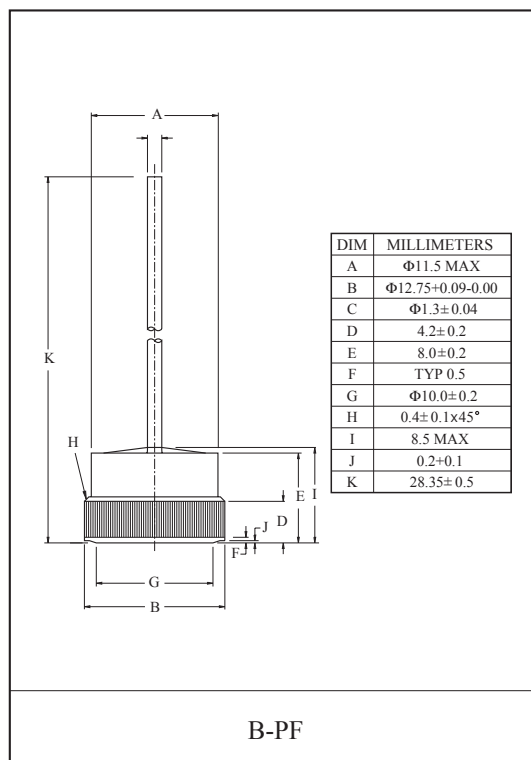
## POLARITY

E50A2CBS E50A2CBR

(+ Type) (- Type)

MAXIMUM RATING ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	50	A
Peak 1 Cycle Surge Current	$I_{FSM}$	380 (60Hz)	A
Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Junction Temperature	$T_j$	$-40 \sim 215$	$^\circ C$
Storage Temperature Range	$T_{stg}$	$-40 \sim 215$	$^\circ C$

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F$	$I_{FM}=100A$	-	-	1.05	V
Reverse Voltage	$V_R$	$I_R=5mA$	200	-	-	V
Reverse Current	$I_R$	$V_R=200V$	-	-	50	$\mu A$
Transient Thermal Resistance	$\Delta V_F$	$I_{FM}=100A, I_M=100mA, P_w=100ms$	-	-	80	mV
Reverse Leakage Current Under High Temperature	$HI_R$	$T_a=150^\circ C, V_R=200V$	-	-	2.5	mA
Reverse Recovery Time	$t_{rr}$	$I_F=100mA, I_R=100mA$	-	-	15	$\mu s$
Temperature Resistance	$R_{th}$	DC total Junction to case	-	-	0.6	$^\circ C/W$