

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

- Average Forward Current : $I_O=50A$.
- Zener Voltage : 27V(Typ.)

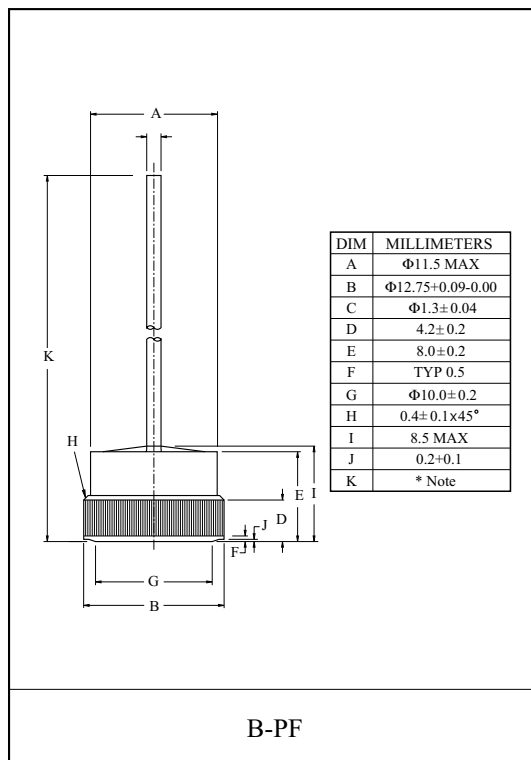
POLARITY

E50A27VBS/SA (+ Type)

E50A27VBR/RB (- 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
Non-Repetitive Peak Reverse Surge Current (10mS)	I_{RSM}	55	A
Transient Peak Reverse Voltage	V_{RSM}	22	V
Peak Reverse Voltage	V_{RM}	20	V
Junction Temperature	T_j	-40 ~ 215	$^{\circ}C$
Storage Temperature Range	T_{stg}	-40 ~ 215	$^{\circ}C$



* Note

unit:mm

Name	length (K)
E50A27VBS	20.35 ± 0.5
E50A27VBASA	17.50 ± 0.5
E50A27VBR	28.35 ± 0.5
E50A27VBRB	27.50 ± 0.5

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_F	$I_{FM}=100A$	-	-	1.05	V
Zener Voltage	V_Z	$I_Z=10mA$	24	27	29	V
Reverse Current	I_R	$V_R=20V$	-	-	0.2	μA
Transient Thermal Resistance	ΔV_F	$I_{FM}=100A, I_M=100mA, P_w=100mS$	-	-	60	mV
Breakdown Voltage	V_{br}	$I_{RSM}=55A, P_w=10mS$	-	-	34	V
Temperature Coefficient	α_T	$I_Z=10mA$	-	15.7	-	mV/ $^{\circ}C$
Reverse Leakage Current Under High Temperature	$H I_R$	$T_a=150^{\circ}C, V_R=20V$	-	-	100	μA
Temperature Resistance	R_{th}	DC total junction to case	-	-	0.6	$^{\circ}C/W$