

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

**FEATURES**

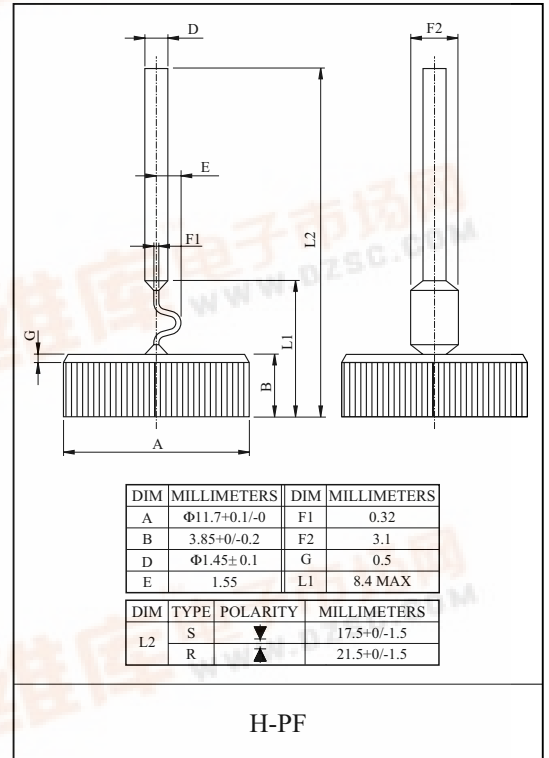
- Average Forward Current :  $I_O=50A$ .
- Reverse Voltage : 200V(Min.)

**POLARITY**

- E50A2CPS (+ Type)
- E50A2CPR (- Type)

**MAXIMUM RATING (Ta=25°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 ~ 200	°C
Storage Temperature Range	$T_{stg}$	-40 ~ 200	°C



**ELECTRICAL CHARACTERISTICS (Ta=25°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	$\Delta V_F$	$I_{FM}=100A, I_M=100mA,$ $P_w=100ms$	-	-	120	mV
Reverse Recovery Time	$t_{rr}$	$I_F=100mA, I_R=100mA$	-	-	15	$\mu s$
Reverse Leakage Current Under High Temperature	$HI_R$	$T_a=150^\circ C, V_R=200V$	-	-	2.5	mA
Temperature Resistance	$R_{th}$	DC total Junction to Case	-	0.90	-	°C/W