

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

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

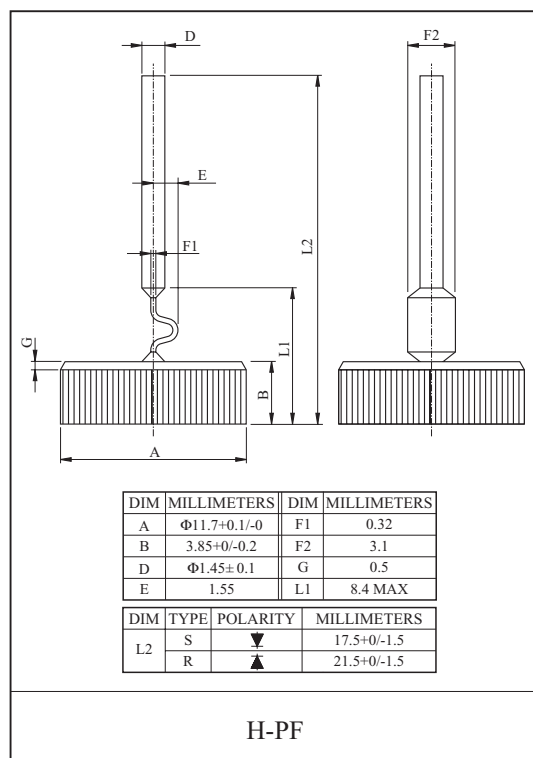
POLARITY

E50A2CPS (+ Type)

E50A2CPR (- 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}	500 (60Hz)	A
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Junction Temperature	T_j	$-40 \sim 200$	$^\circ C$
Storage Temperature Range	T_{stg}	$-40 \sim 200$	$^\circ C$

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	μA
Transient Thermal Resistance	ΔV_F	$I_{FM}=100A$, $I_M=100mA$, $P_w=100ms$	-	-	130	mV
Reverse Recovery Time	t_{rr}	$I_F=100mA$, $I_{RP}=100mA$	-	-	15	μs
Reverse Leakage Current Under High Temperature	HI_R	$T_a=150^\circ C$, $V_R=200V$	-	-	2.5	mA
Temperature Resistance	R_{th}	Junction to Base	-	-	0.8	$^\circ C/W$
		Junction to Fin	-	-	1.0	