

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

## FEATURES

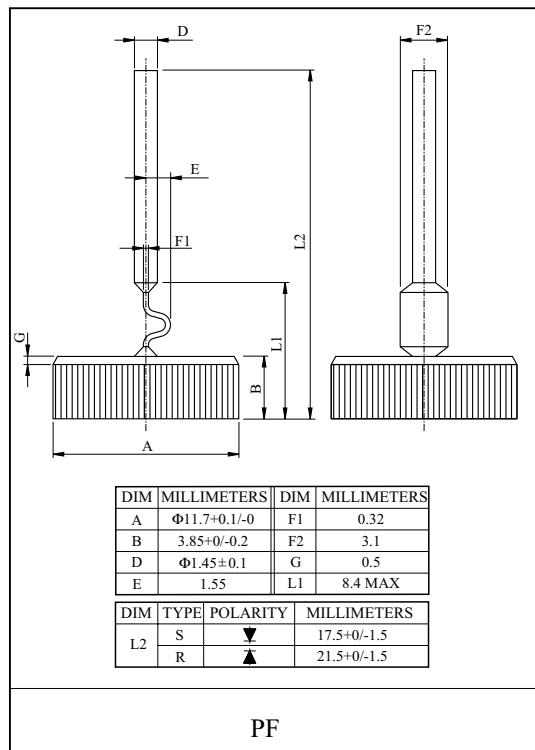
- Average Forward Current :  $I_O=30A$ .
- Zener Voltage : 23V(Typ.)

## POLARITY

E30A23VPS    E30A23VPR  
 (+ Type)    (- Type)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	30	A
Peak 1 Cycle Surge Current	$I_{FSM}$	300(50Hz)	A
Repetitive Peak Reverse Surge Current	$I_{RSM}$	30	A
Transient Peak Reverse Voltage	$V_{RSM}$	17	V
Peak Reverse Voltage	$V_{RM}$	17	V
Junction Temperature	$T_j$	-40 ~ 200	$^\circ C$
Storage Temperature Range	$T_{stg}$	-40 ~ 200	$^\circ C$

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=100A$	-	-	1.17	V
Zener Voltage	$V_Z$	$I_Z=10mA$	21	23	25	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R=V_{RM}$	-	-	10	$\mu A$
Transient Thermal Resistance	$\Delta V_F$	$I_{FM}=100A$	-	-	140	mV
Reverse Leakage Current Under High Temperature	HIR	$T_a=150^\circ C, V_R=V_{RM}$	-	-	2.5	mA
Temperature Resistance	$R_{th}$	DC total junction to case	-	-	1.0	$^\circ C/W$