

KEC**SEMICONDUCTOR
TECHNICAL DATA****E35A21VPS, E35A21VPR****STACK SILICON DIFFUSED DIODE**

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

- Average Forward Current : $I_O=35A$.
- Zener Voltage : 21V(Typ.)

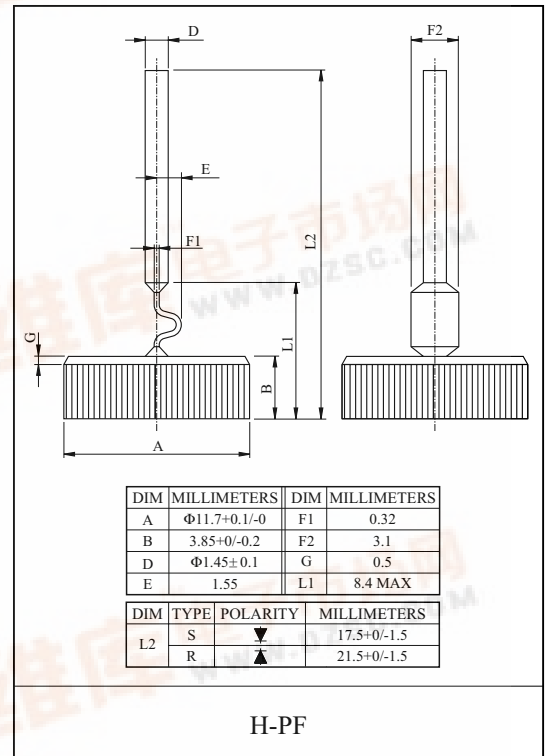
POLARITY

E35A21VPS (+ Type)

E35A21VPR (- Type)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	35	A
Peak 1 Cycle Surge Current	I_{FSM}	300 (60Hz)	A
Repetitive Peak Reverse Surge Current (Pulse width=10mS)	I_{RSM}	35	A
Transient Peak Reverse Voltage	V_{RSM}	18	V
Peak Reverse Voltage	V_{RM}	16	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_F	$I_{FM}=100A$	-	-	1.10	V
Zener Voltage	V_Z	$I_Z=10mA$	19	21	23	V
Reverse Current	I_R	$V_R=17V$	-	-	10	μA
Transient Thermal Resistance	ΔV_F	$I_{FM}=100A, I_M=100mA, P_w=100mS$	-	-	130	mV
Reverse Leakage Current Under High Temperature	HI_R	$T_a=150^{\circ}C, V_R=17V$	-	-	2.5	mA
Temperature Resistance	R_{th}	DC total junction to case	-	0.83	-	$^{\circ}C/W$