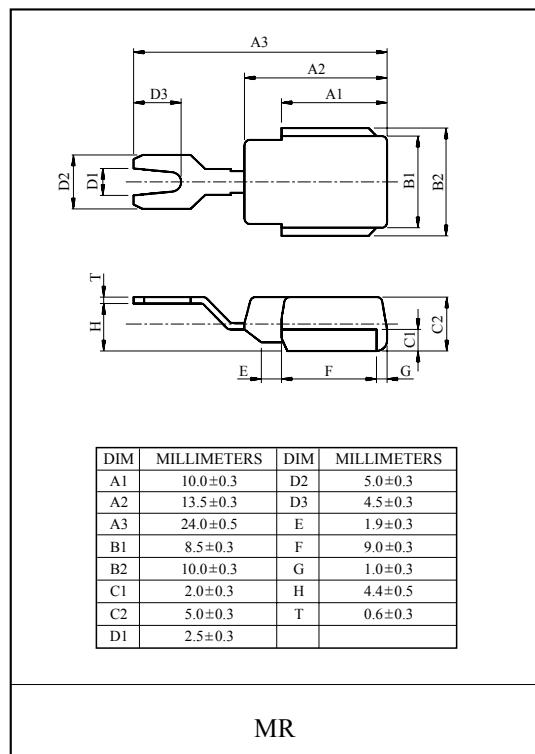


ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

## FEATURES

- Average Forward Current :  $I_O=35A$ .
- Zener Voltage : 23V(Typ.)

## POLARITY

E35A23VS E35A23VR  
(+ Type) (- Type)

## MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	35	A
Peak 1 Cycle Surge Current	$I_{FSM}$	450 (50Hz)	A
Peak Reverse Surge Current ( $I_{RSM}/2=10ms$ )	$I_{RSM}$	70	A
Peak Reverse Over Voltage	$V_{RSM}$	70	V
Peak Reverse Voltage	$V_{RM}$	17	V
Junction Temperature	$T_j$	-40 ~ 200	°C
Storage Temperature Range	$T_{stg}$	-40 ~ 150	°C

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=100A$	-	-	1.05	V
Zener Voltage	$V_z$	$I_z=10mA$	20	23	26	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R=V_{RM}$	-	-	10	$\mu A$
Transient Thermal Resistance	$I_{RRM}$	$I_{FM}=100A, P_w=100mS$	-	-	90	mV
Reverse Leakage Current Under High Temperature	$HI_R$	$T_a=150^{\circ}C, V_R=V_{RM}$	-	-	2.5	mA
Reverse recovery Time	$Tr_r$	$I_F=100mA, -I_R=100mA$ 90% Recovery Point	-	-	5.0	$\mu S$
Temperature Resistance	$R_{th}$	DC total junction to case	-	-	1.0	$^{\circ}C/W$
Thermal runaway Temperature	$Tr_{wy}$	$V_R=17V, I_R=5mA$	200	-	-	°C
Temperature Coefficient	$\alpha_T$	$I_R=10mA$	-	18	-	$mV/^{\circ}C$