

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

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

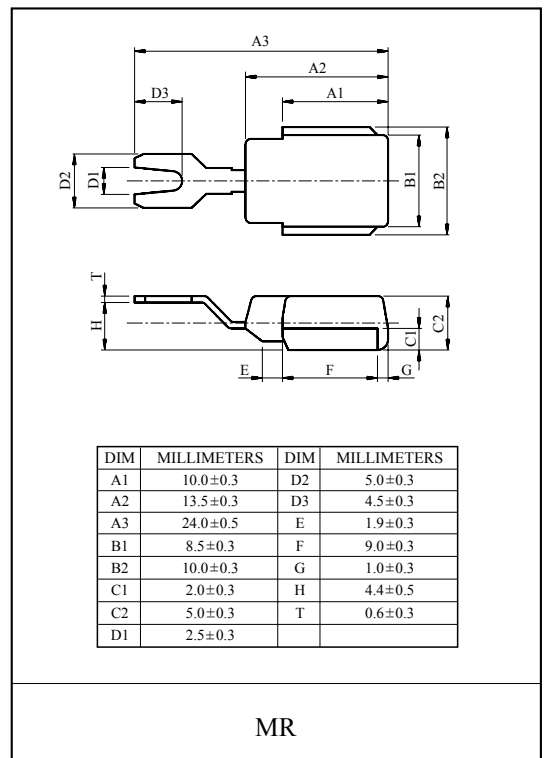
POLARITY

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	μA
Transient Thermal Resistance	I_{RRM}	$I_{FM}=100A, Pw=100mS$	-	-	90	mV
Reverse Leakage Current Under High Temperature	H_{IR}	$T_a=150°C, V_R=V_{RM}$	-	-	2.5	mA
Reverse recovery Time	T_{rr}	$I_F=100mA, -I_R=100mA$ 90% Recovery Point	-	-	5.0	μS
Temperature Resistance	R_{th}	DC total junction to case	-	-	1.0	°C/W
Thermal runaway Temperature	$Trwy$	$V_R=17V, I_R=5mA$	200	-	-	°C
Temperature Coefficient	α_T	$I_R=10mA$	-	18	-	mV/°C