

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

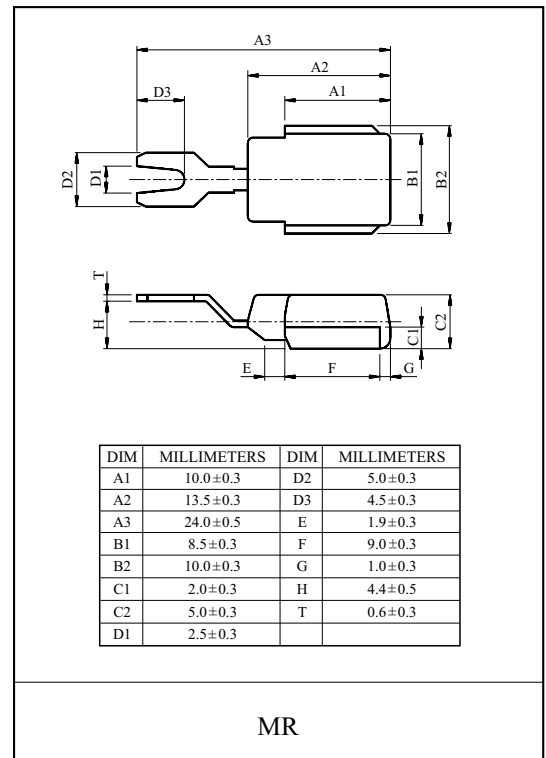
- Average Forward Current : $I_0=30A$.
- Zener Voltage : 23V(Typ.)

POLARITY

E30A23VS E30A23VR
(+ Type) (- Type)

MAXIMUM RATING (Ta=25 °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 ~ 190	°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}	$I_{FM}=100A$	-	-	1.2	V
Zener Voltage	V_Z	$I_Z=10mA$	21	23	25	V
Repetitive Peak Reverse Current	I_{RRM}	$V_R=V_{RM}$	-	-	10	μA
Transient Thermal Resistance	ΔV_F	$I_{FM}=100A$	-	-	100	mV
Reverse Leakage Current Under High Temperature	HIR	$T_a=150\text{ °C}$, $V_R=V_{RM}$	-	-	2.5	mA
Reverse Recovery Time	t_{rr}	$I_F=100mA$, $-I_R=100mA$, 90% Recovery Point	-	-	1.5	μs
Temperature Resistance	R_{th}	DC total junction to case	-	-	1.0	°C/W

E30A23VS, E30A23VR

