

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

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

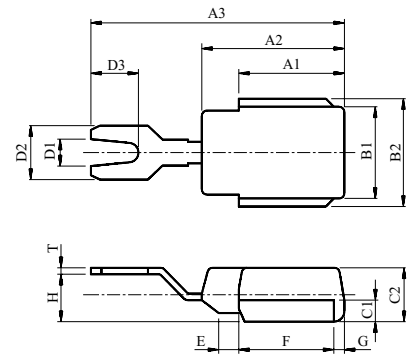
POLARITY

E30A23VS E30A23VR

(+ 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 ~ 190	$^\circ C$
Storage Temperature Range	T_{stg}	-40 ~ 150	$^\circ C$



DIM	MILLIMETERS	DIM	MILLIMETERS
A1	10.0±0.3	D2	5.0±0.3
A2	13.5±0.3	D3	4.5±0.3
A3	24.0±0.5	E	1.9±0.3
B1	8.5±0.3	F	9.0±0.3
B2	10.0±0.3	G	1.0±0.3
C1	2.0±0.3	H	4.4±0.5
C2	5.0±0.3	T	0.6±0.3
D1	2.5±0.3		

MR

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=100A$	-	-	1.2	V
Zener Voltage	V_Z	$I_Z=10mA$	20	23	26	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	$T_a=150^\circ C$, $V_R=V_{RM}$	-	-	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	$^\circ C/W$

E30A23VS, E30A23VR

