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SOD-523

1N4448X FAST SWITCHING DIODE

FEATURES

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

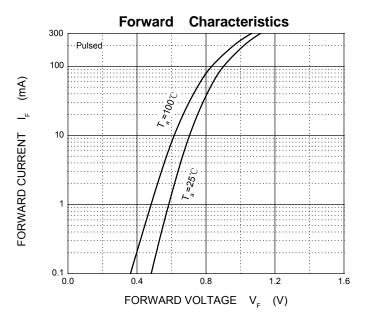
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	100	
Working Peak Reverse Voltage	V_{RWM}	100	V
DC Blocking Voltage	V_{R}	75	
RMS Reverse Voltage	$V_{\text{R}(\text{RMS})}$	53	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	Α
Power Dissipation	Pd	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	833	°C/W
Junction Temperature	Tj	150	℃
Storage Temperature	T _{STG}	-55~+150	℃

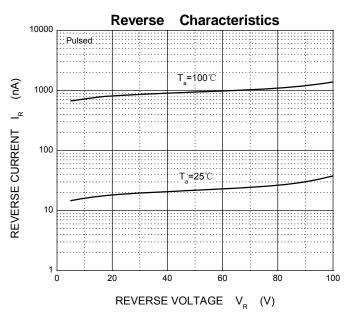
Electrical Ratings @Ta=25℃

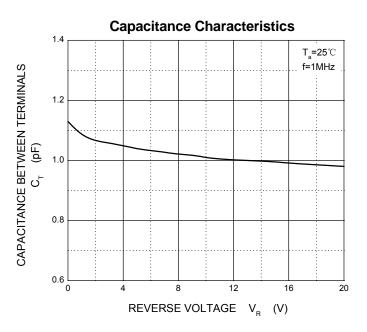
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Barrage broad days and the second	V _{(BR)R}	75			V	IR=5 A μ
Reverse breakdown voltage	V _{(BR)R}	100			V	IR=100μA
Famusard voltage	V _{F1}	0.62		0.72	V	I _F =5mA
Forward voltage	V _{F2}			1.0	V	I _F =100mA
Reverse current	I _R			25	nA	V _R =20V
Capacitance between terminals	Ст			4	pF	V _R =0V,f=1MHz
Poverse recovery time	+			4	no	I _F =I _R =10mA
Reverse recovery time	t _{rr}			4	ns	Irr=0.1 XI_R , R_L =100 Ω

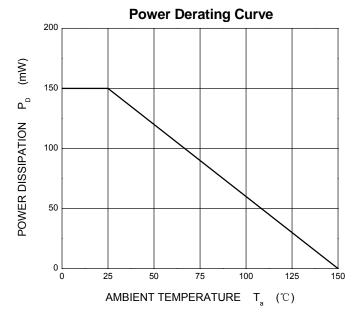




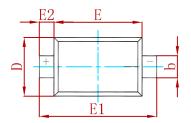


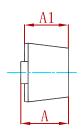


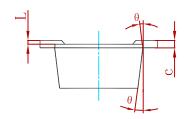




PACKAGE MECHANICAL DATA

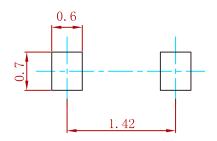






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010	0.070	0.001	0.003	
θ	7° I	REF	7° I	REF	

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
1N4448X	SOD-523	3000



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