BAT41KFILM

High speed Switching Diode

Features

- Extremely small surface mounting type.
- Small package.
- High speed and high reliability



SOD-523



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT41KFILM	SOD-523	6	3000

Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	90	V
DC Reverse voltage	V_R	80	V
Continuous forward current	I_F	225	mA
Surge current	I_{FSM}	0.5	A
Total power dissipation	P_{tot}	150	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55-125	°C

Electrical Characteristics(Ta=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			1.2	V	I_F=100mA
Reverse current	I_R			20	μA	V_R=80V
Diode capacitance	C_d		0.72	3.0	pF	V_R=0.5V,f=1MHz
Reverse recovery time	t_{rr}			4	ns	V_R=6V,I_F=10mA,R_L=100Ω

Typical Characteristics

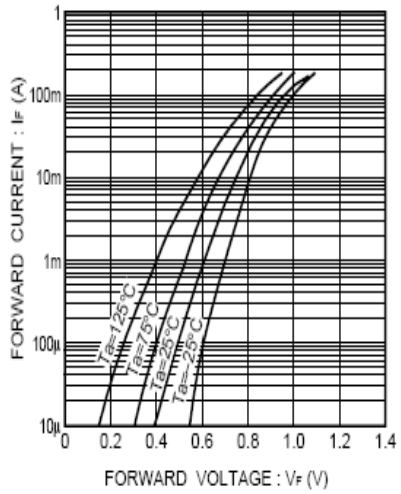


Fig.1 Forward characteristics

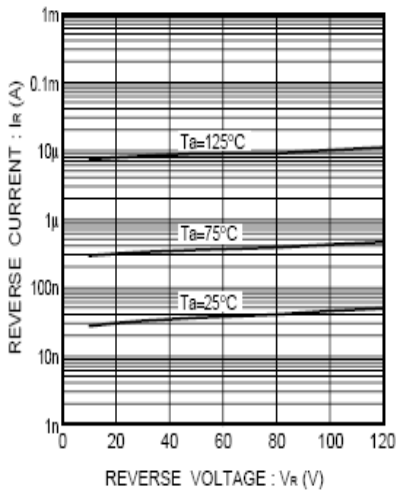


Fig.2 Reverse characteristics

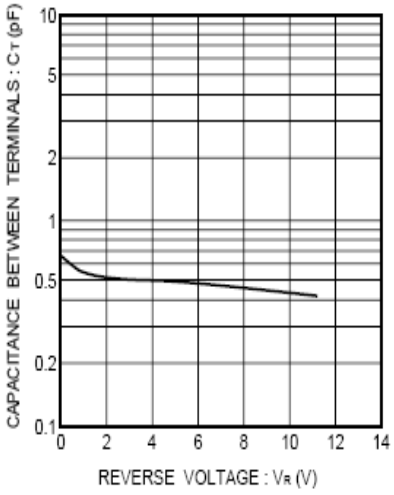


Fig.3 Capacitance between terminals

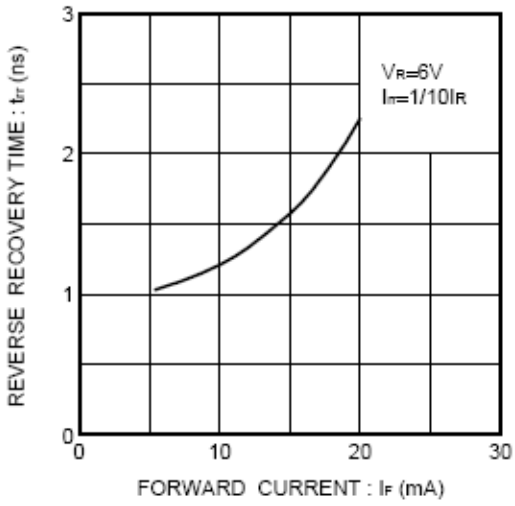


Fig.4 Reverse recovery time characteristics

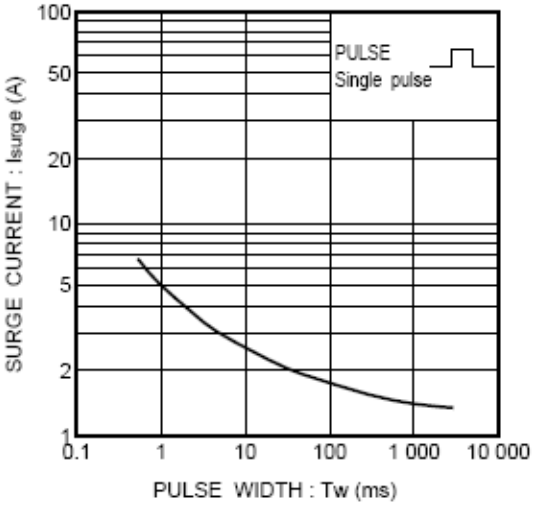
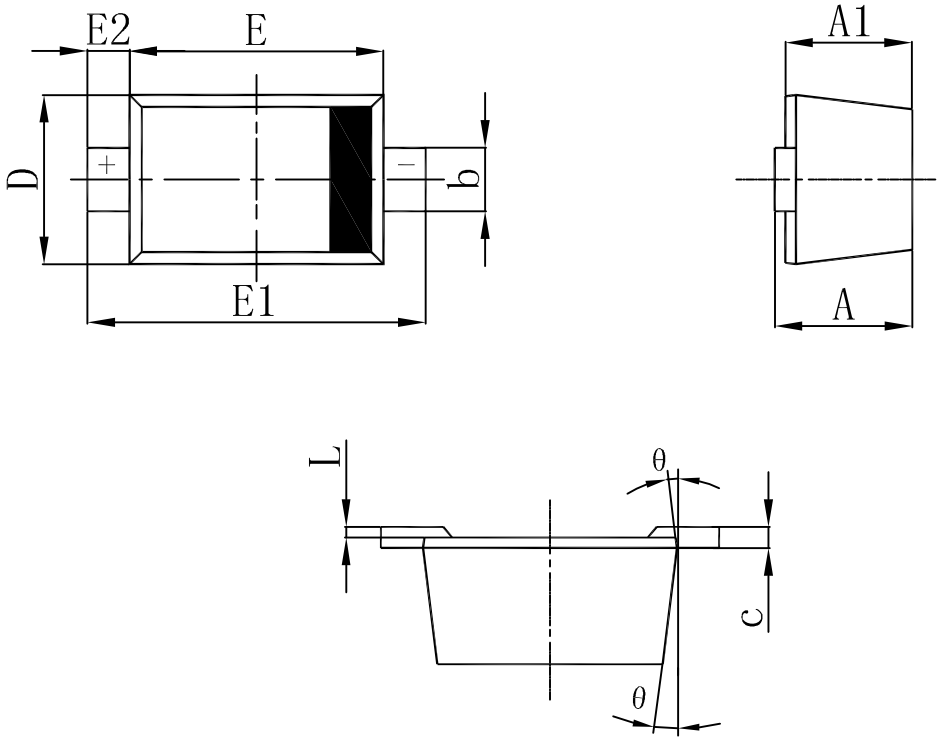


Fig.5 Surge current characteristics

SOD-523 Package Outline Dimensions



Sym ol	imensions In Millimeters		imensions In Inches	
	Min	Max	Min	Max
A	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
c	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° REF		7° REF	

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HXY MOSFET:

60N06 HAZ4007-01H LM393DR-HXY BV05C-H HACPDQC5V0-HF HSD15C.TCT HSEN2411D3 HSG3D15B3.3MA HSTS521050B331 AZ4007-01H HRCLAMP3371ZCTFT HSEN3611D3 PESDLC2FD3V3BH PESDNC2XD5VBF RLSD32A121V AZ4836-01L ESD5L5.0C-HXY PJSD24CW_R1 ESD5LM5.0C-HXY HESD36VD3B AQ15C-01FTG HCEZ36V,L3F PJEC5V0M1FN2 HLY323BC1524L PESDNC2XD5VBL TPSMB100CA-VR HESDSLC3V3D3B HPTVSUC3D5VB PESDSC2FD5VU TPSMB28A-VR