RB520SM-40T2R
SCHOTTKY BARRIER DIODE

Features

Ultra small mold type
Low V_F
High reliability.



SOD-523



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RB520SM-40T2R	SOD-523	S	3000

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

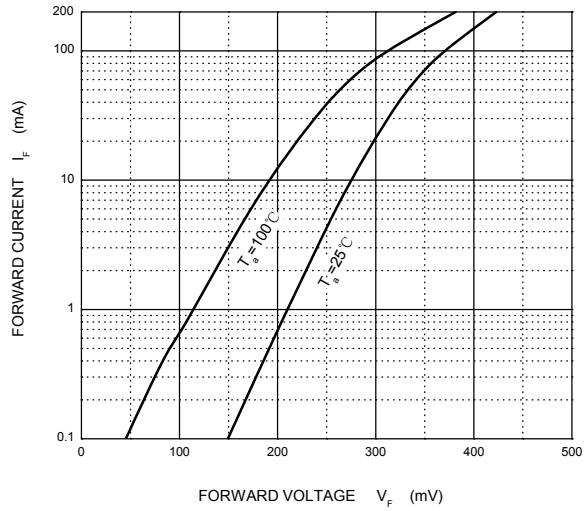
Symbol	Parameter	Value	Unit
V_{RM}	Non-repetitive peak reverse voltage	45	V
V_{RRM}	Peak repetitive reverse voltage	40	V
V_{RWM}	Working peak reverse voltage		
$V_{R(RMS)}$	RMS reverse voltage	28	V
I_O	Average rectified output current	200	mA
I_{FSM}	Non-repetitive peak forward surge current @t=8.3ms	1	A
P_D	Power dissipation	150	mW
$R_{\theta JA}$	Thermal resistance from junction to ambient	667	℃/W
T_J	Junction temperature	125	℃
T_{stg}	Storage temperature	-55~+150	℃

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

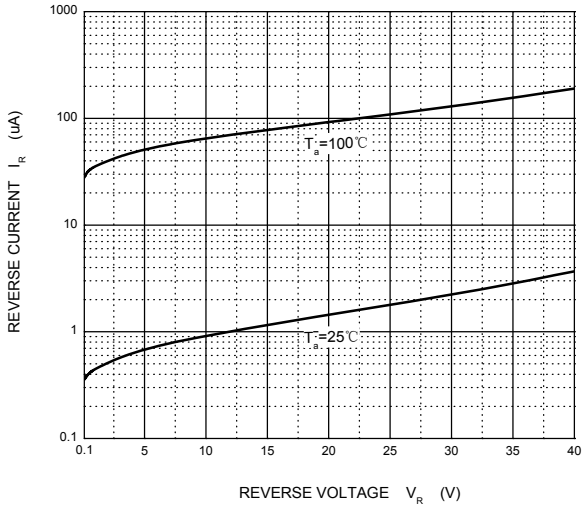
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=0.1mA	40			V
Reverse current	I_R	V_R=10V			20	μA
		V_R=40V			90	
Forward voltage	V_F	I_F=10mA	0.16		0.3	V
		I_F=100mA	0.31		0.45	
		I_F=200mA	0.41		0.54	

Typical Characteristics

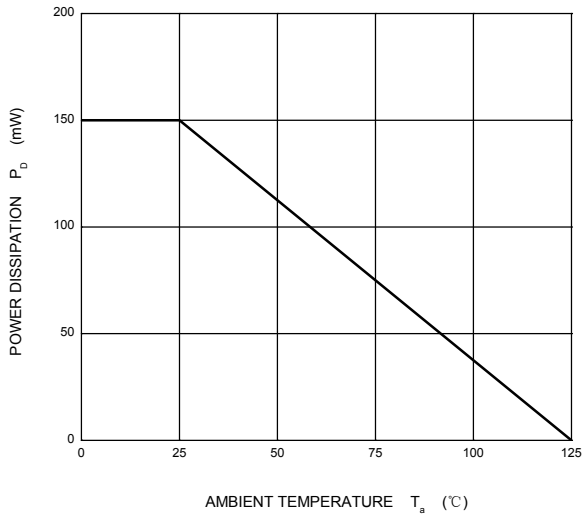
Forward Characteristics



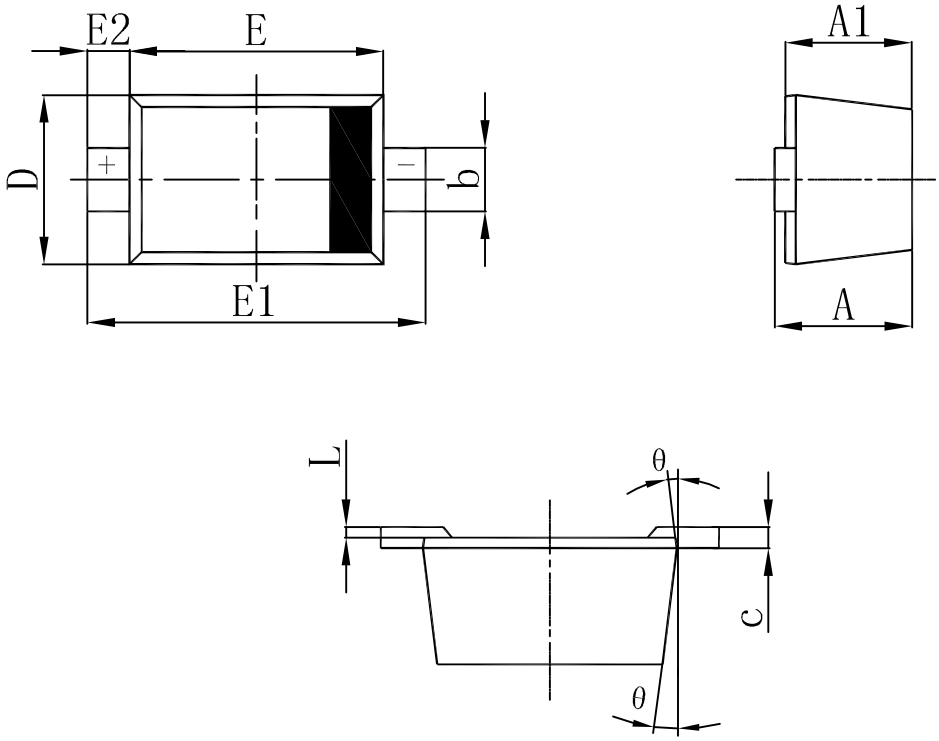
Reverse Characteristics



Power Derating Curve



SOD-523 Package Outline Dimensions



Symbol	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:

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