

SOD-523 Plastic-Encapsulate Diodes

RB520S-40 SCHOTTKY BARRIER DIODES

FEATURES

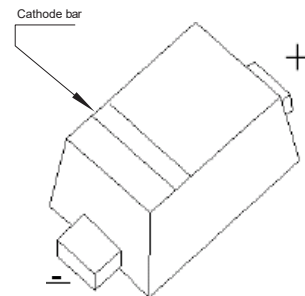
- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

Marking



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SOD-523



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

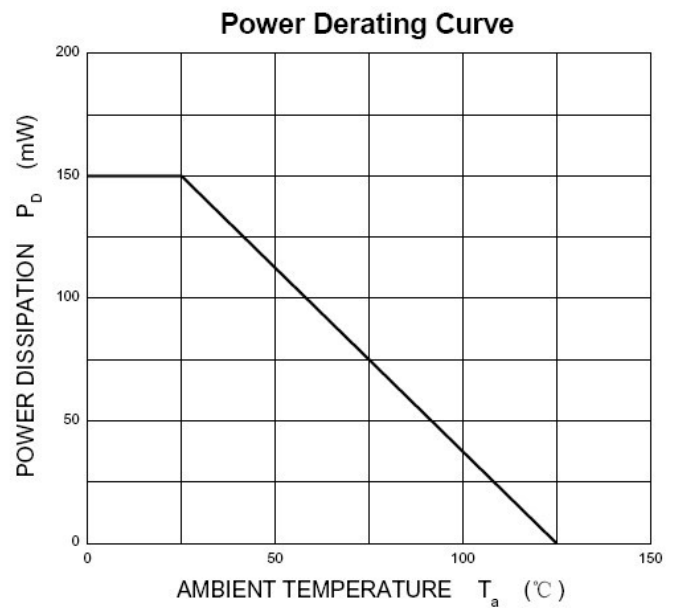
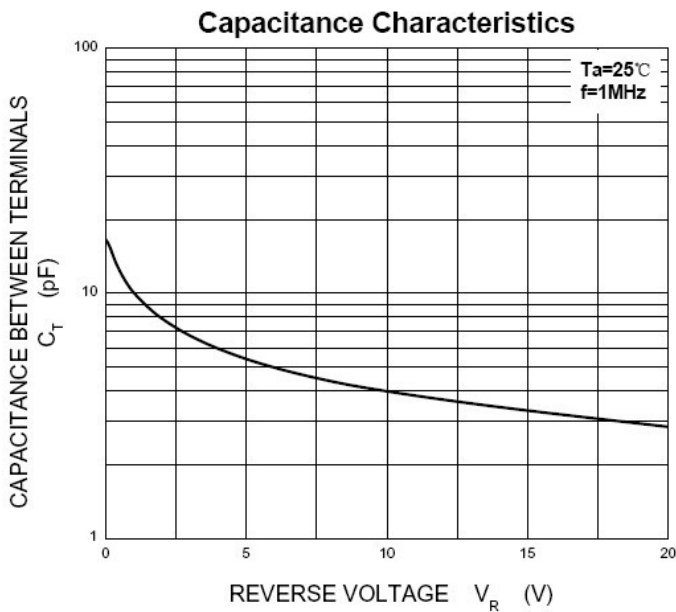
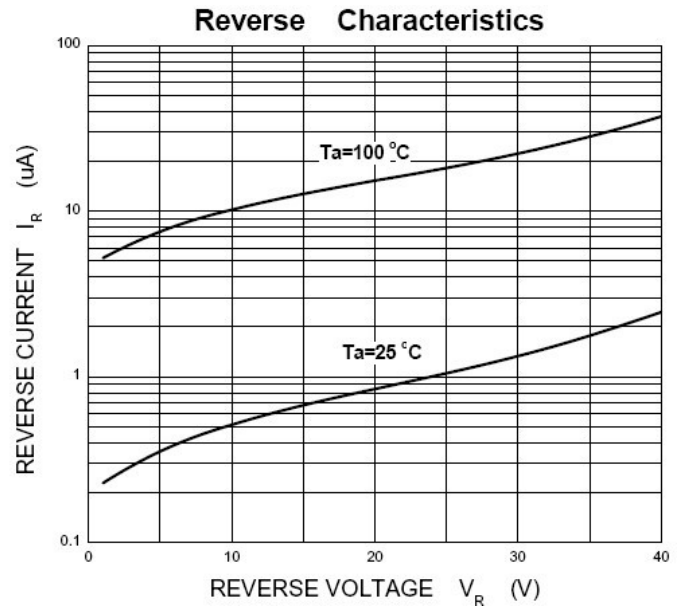
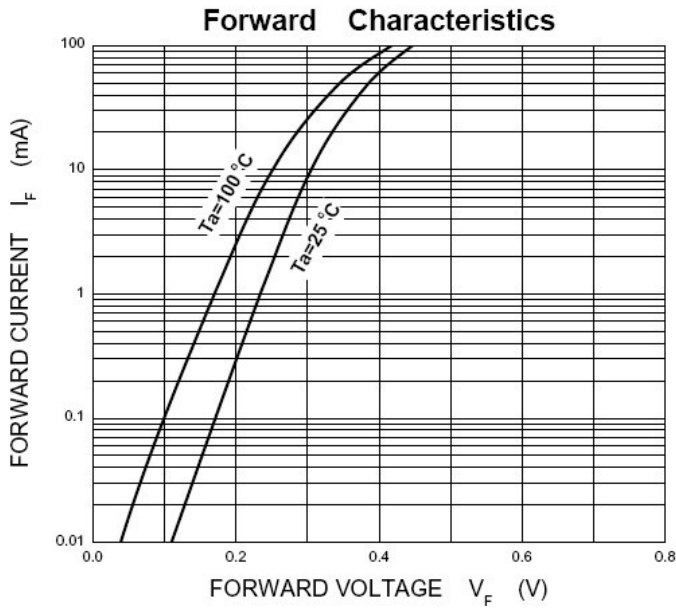
Parameter	Symbo	Limit	Unit
Peak Reverse Voltage	V_{RM}	40	V
DC Blocking Voltage	V_R	40	V
Maximum Average Rectified Output Current	I_O	0.2	A
Non-Repetitive Peak Forward Surge Current @ $t=8.3\mu s$	I_{FSM}	1	A
Power Dissipation	P_d	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	667	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-50~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F	0.304 0.446		0.39 0.55	V	$I_F=10mA$ $I_F=100mA$
Reverse current	I_R		0.605 2.837	1.0 10	μA	$V_R=10V$ $V_R=40V$

The above data are for reference only.

Typical Characteristics



The curve above is for reference only.