

SOD-523 Plastic-Encapsulate Diodes

RB751S-40 SCHOTTKY BARRIER DIODES

FEATURES

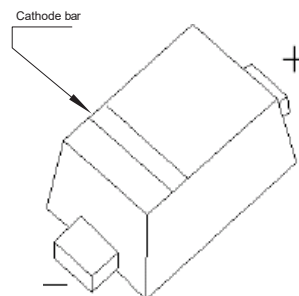
- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

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	30	V
Maximum Average Rectified Output Current	I_O	30	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\mu s$	I_{FSM}	0.2	A
Power Dissipation	P_d	150	mW
Typical Junction Capacitance $V_R=1V, f=1MHz$	C_T	20	pF
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55~+150	°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage ¹⁾	V_F			0.37	V	$I_F=1.0mA$
Reverse current ²⁾	I_R			5.0	μA	$V_R=30V$

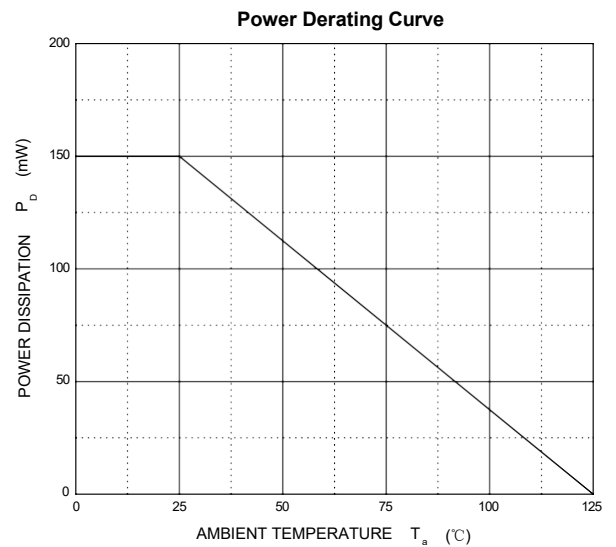
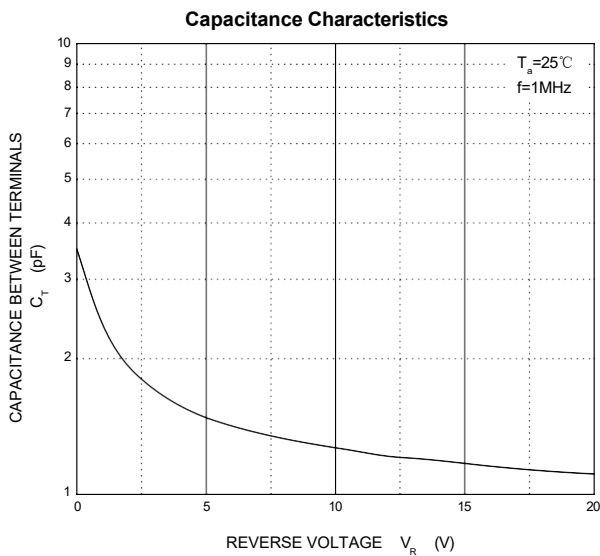
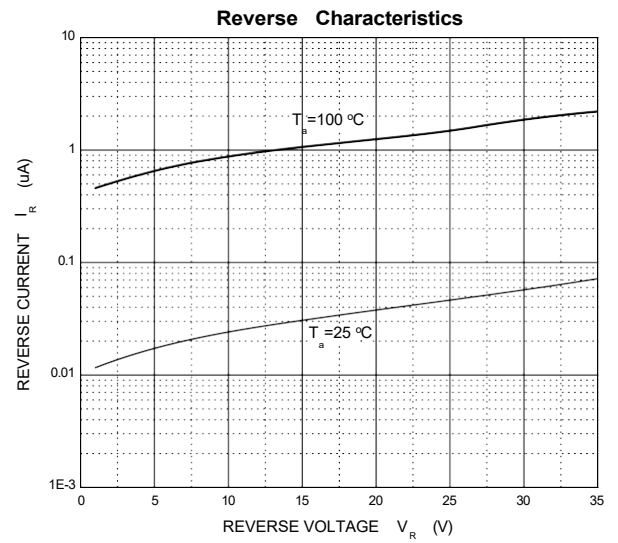
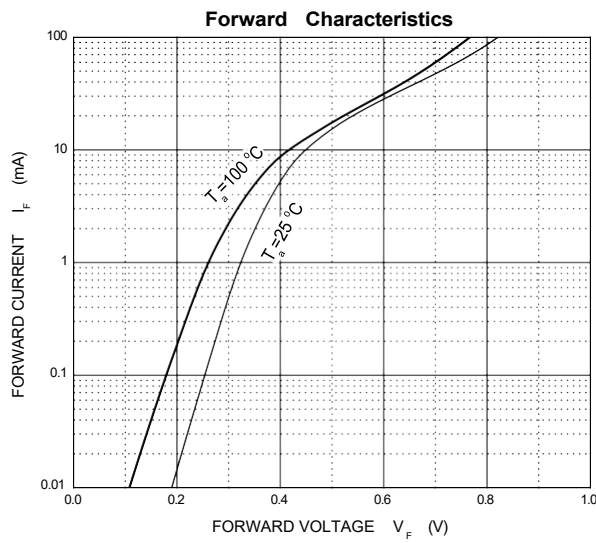
Notes

1) Pulse width $\leq 380 \mu s$, Duty cycle $< 2\%$.

2) Pulse test, $t_p \leq 5ms$.

The above data are for reference only.

Typical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)



The curve above is for reference only.