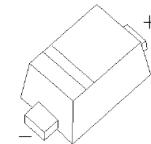


SCHOTTKY BARRIER DIODE

FEATURES

- Small package
- Low forward voltage
- Low reverse current



MARKING: S3

SOD-523

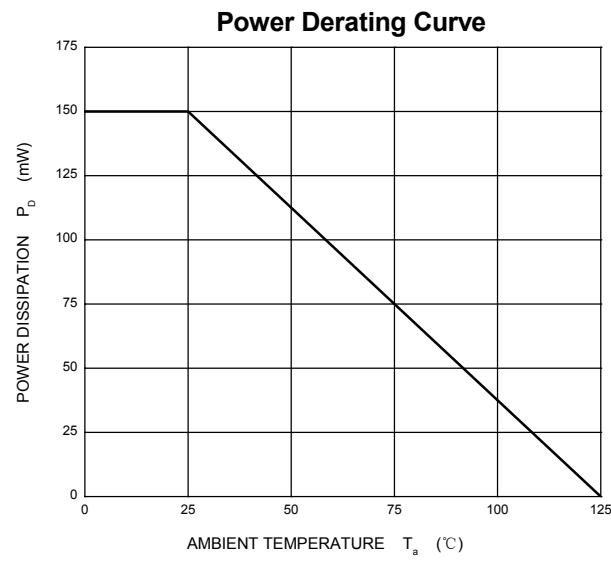
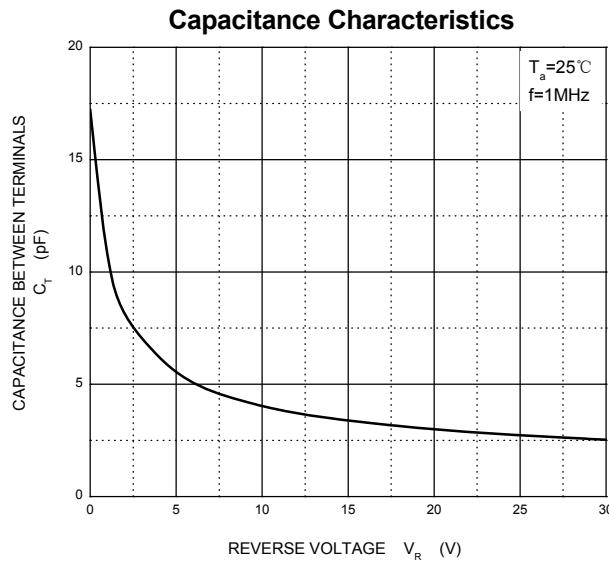
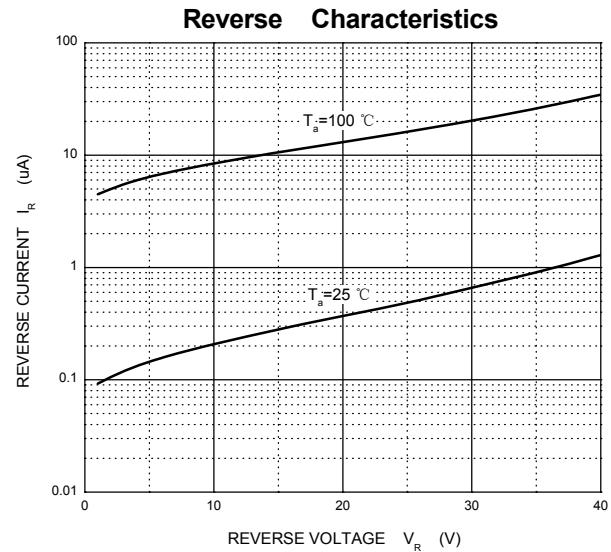
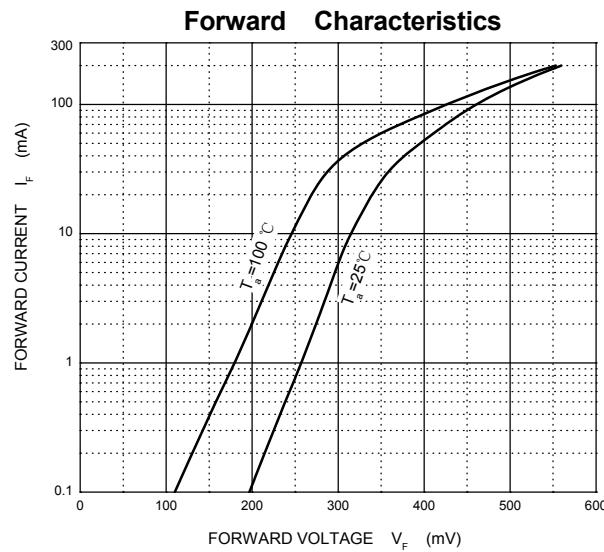
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit			Unit
Peak reverse voltage	V _{RM}	45			V
DC reverse voltage	V _R	40			V
Maximum (peak) forward current	I _{FM}	300			mA
Average forward current	I _o	100			mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	1000			mA
Power dissipation	P _D	150			mW
Operating Junction Temperature Range	T _j	-40 ~ +125			°C
Storage Temperature Range	T _{stg}	-55 ~ +150			°C

Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V _{F1}		0.28		V	I _F =1mA
	V _{F2}		0.36		V	I _F =10mA
	V _{F3}		0.54	0.60	V	I _F =50mA
Reverse current	I _R			5	μ A	V _R =10V
Total capacitance	C _T		18	25	pF	V _R =0, f=1MHz

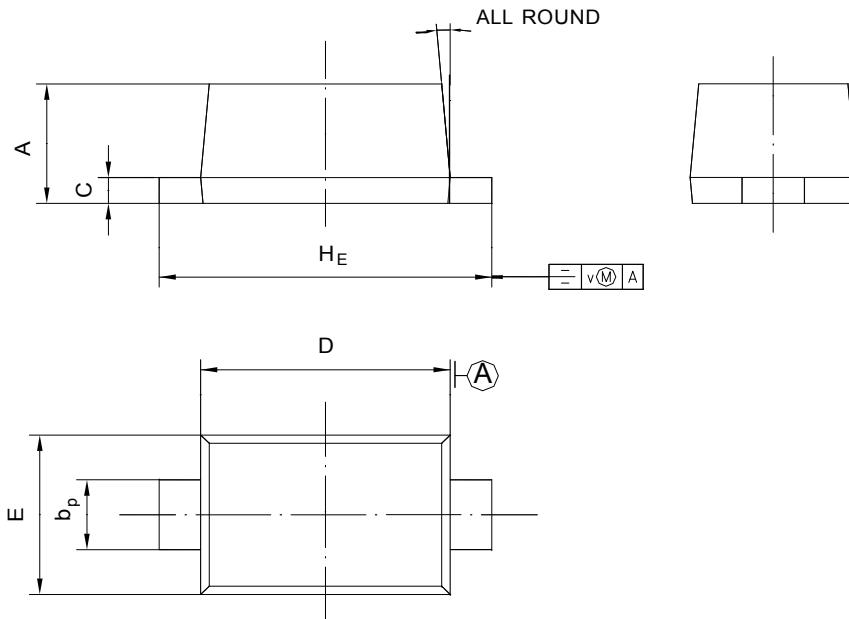
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

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UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.68 0.58	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°