

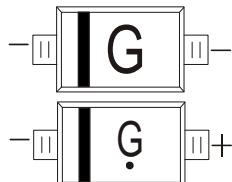
Plastic-Encapsulate Diodes

High Speed Switching Diode

FEATURES

- Small surface mounting type
- High speed
- High reliability with high surge current handing capability

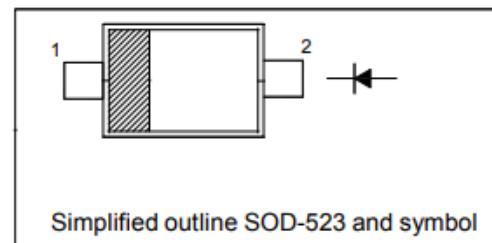
MARKING: G



The marking bar indicates the cathode
Solid dot = Green molding compound device,
if none, the normal device.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Simplified outline SOD-523 and symbol

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

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	85	V
DC Blocking Voltage	V _R	80	V
Forward Continuous Current	I _{FM}	200	mA
Average Rectified Output Current	I _O	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	A
Power Dissipation	P _d	150	mW
Thermal Resistance Junction to Ambient	R _{θJA}	833	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{STG}	-55~+150	°C

Electrical Ratings @Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _{F1}		0.62		V	I _F =1mA
	V _{F2}		0.75		V	I _F =10mA
	V _{F3}			1.2	V	I _F =100mA
Reverse current	I _{R1}			0.1	µA	V _R =30V
	I _{R2}			0.5	µA	V _R =80V
Capacitance between terminals	C _T			3.0	pF	V _R =0,f=1MHZ
Reverse recovery time	t _{rr}			4	ns	V _R =6V,I _F =10mA,R _L =100Ω

Typical Characteristics

