

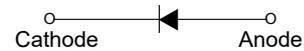
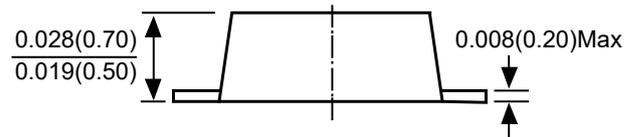
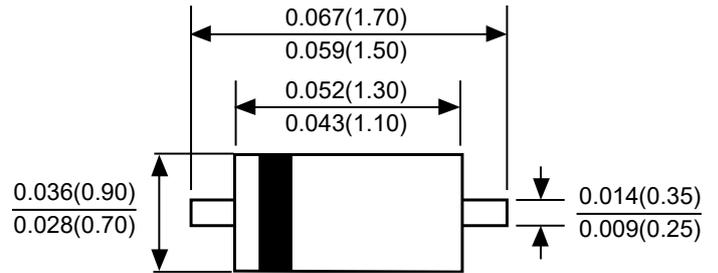


FEATURES

- Small Surface Mounting Type
- High Speed
- High Reliability with High Surge Current
- Band Indicates Cathode
- Marking Code : E5

SOD-523FL

Unit:inch(mm)



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

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Forward Current	I_{FM}	200	mA
Peak Forward Surge Current (Pulse Width=1s)	I_{FSM}	500	mA
Operating Junction Temperature	T_J	125	°C
Storage Temperature Range	T_{STG}	-55 to +125	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

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

Parameter	Test Condition	Symbol	Limits		Unit
			Min.	Max.	
Forward Voltage	$I_F=150mA$	V_F	-	1.2	V
Reverse Leakage Current	$V_R=85V$	I_R	-	100	nA
Capacitance	$V_R=0.5V, f=1MHz$	C	-	4	pF
Reverse Recovery Time	$I_F=10mA, V_R=6V, R_L=100\Omega$	T_{rr}	-	4	nS

DEVICE CHARACTERISTICS

1SS422

FIG. 1-Capacitance

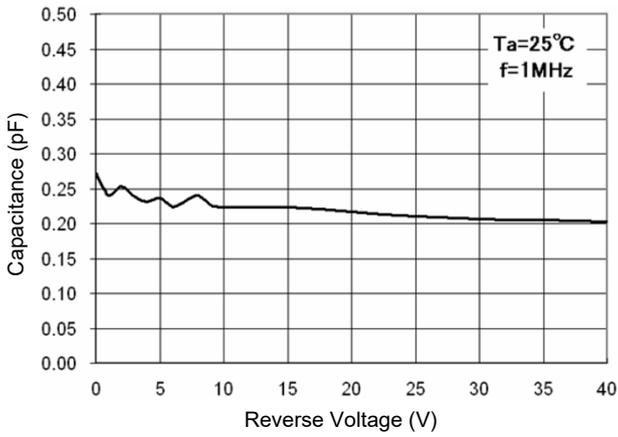


FIG. 2-Typical Forward Characteristics

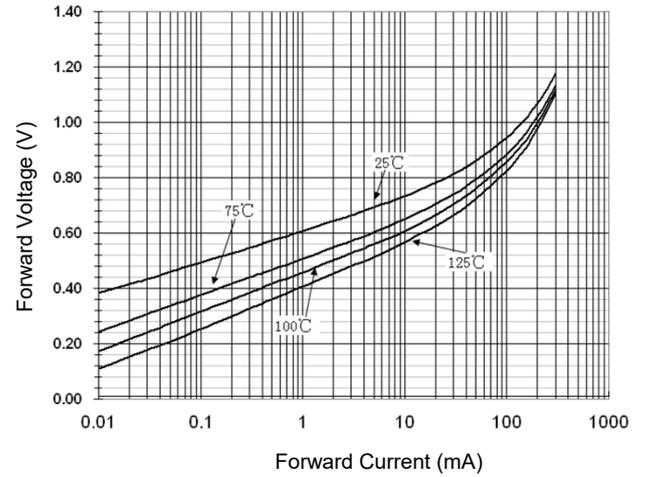


FIG. 3-Power Derating Curve

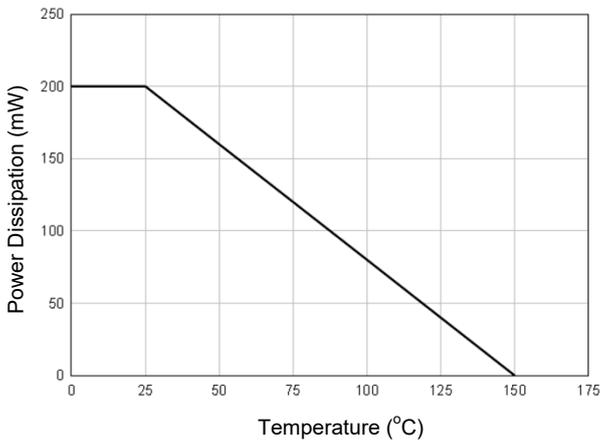


FIG. 4-Typical Reverse Characteristics

