

## CDSP400

### RoHS Device

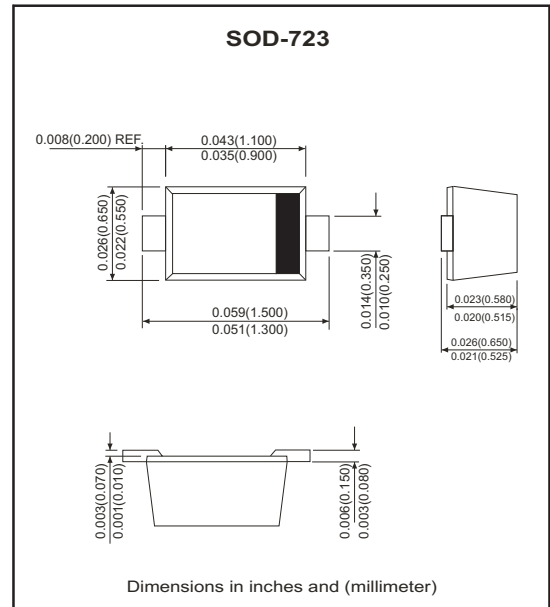


### Features

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

### Mechanical Data

- Case: Molded plastic SOD-723
- Terminals: Solderable per MIL-STD-750, Method 2026.1.
- Polarity: Indicated by cathode band.
- Mounting position: Any.
- Marking: 7



### Maximum Ratings (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak reverse voltage	V <sub>RM</sub>	90	V
DC reverse voltage	V <sub>R</sub>	80	V
Peak forward current	I <sub>FM</sub>	225	mA
Mean rectifying current	I <sub>o</sub>	100	mA
Surge current      T <sub>p</sub> =1S	I <sub>surge</sub>	500	mA
Junction Temperature	T <sub>J</sub>	125	°C
Junction Temperature	T <sub>STG</sub>	-55 to +125	°C

### Electrical Ratings (at Ta=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Max.	Unit
Forward voltage	I <sub>F</sub> =100mA	V <sub>F</sub>		1.2	V
Reverse current	V <sub>R</sub> =80V	I <sub>R</sub>		0.1	µA
Capacitance between terminals	V <sub>R</sub> =0.5V, f=1MHz	C <sub>T</sub>		3.0	pF
Reverse recovery time	V <sub>R</sub> =6V, I <sub>F</sub> =10mA, R <sub>L</sub> =100Ω	t <sub>rr</sub>		4.0	nS

## ELECTRICAL CHARACTERISTIC CURVES (CDSP400)

Fig.1 - Forward Characteristics

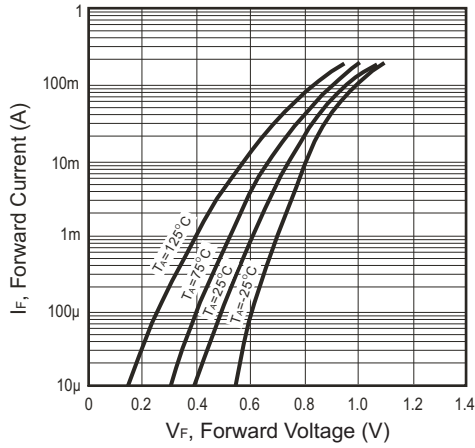


Fig.2 - Reverse Characteristics

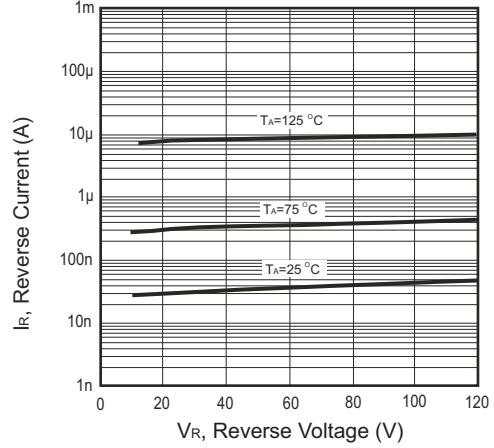


Fig.3 - Capacitance between terminals

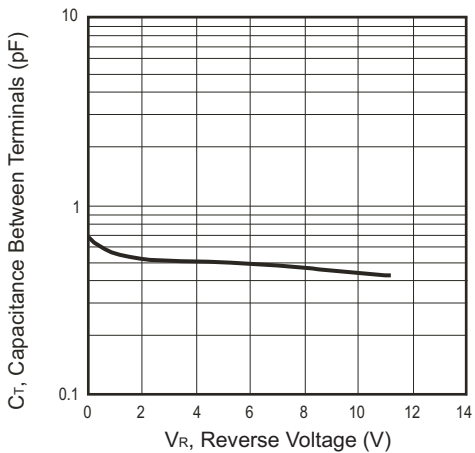


Fig.4 - Reverse Recovery Time Characteristics

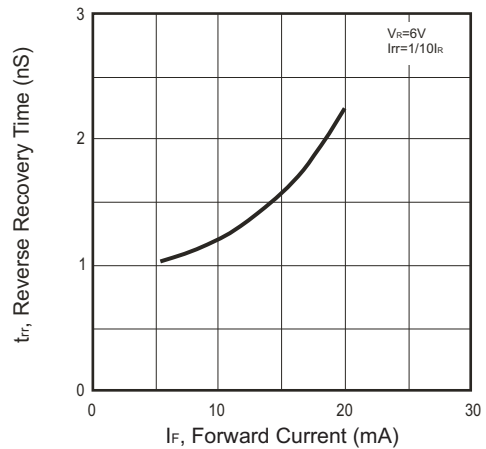


Fig.5 - Surge Current Characteristics

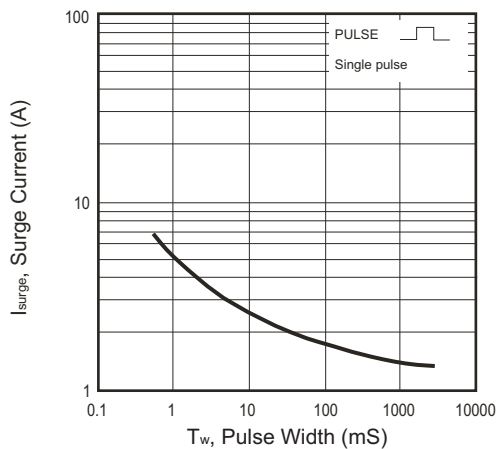


Fig.6 - Reverse Recovery Time ( $t_{rr}$ ) Measurement Circuit

