

CDSP400

RoHS Device

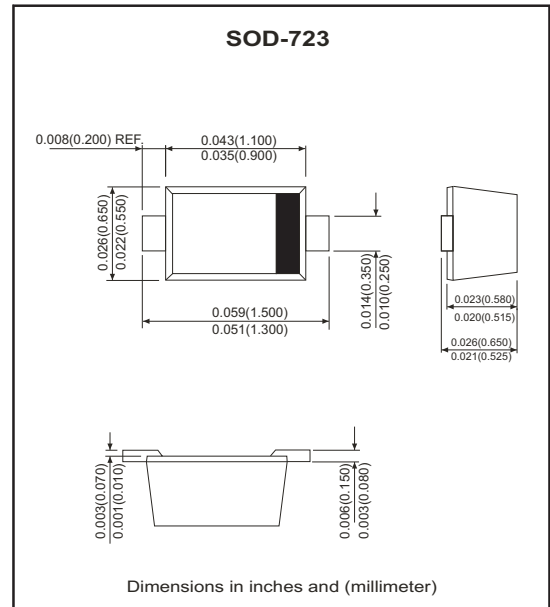


Features

- 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 _{RM}	90	V
DC reverse voltage	V _R	80	V
Peak forward current	I _{FM}	225	mA
Mean rectifying current	I _o	100	mA
Surge current T _p =1S	I _{surge}	500	mA
Junction Temperature	T _J	125	°C
Junction Temperature	T _{STG}	-55 to +125	°C

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

Parameter	Conditions	Symbol	Min.	Max.	Unit
Forward voltage	I _F =100mA	V _F		1.2	V
Reverse current	V _R =80V	I _R		0.1	μA
Capacitance between terminals	V _R =0.5V, f=1MHz	C _T		3.0	pF
Reverse recovery time	V _R =6V, I _F =10mA, R _L =100Ω	t _{rr}		4.0	nS

ELECTRICAL CHARACTERISTIC CURVES (CDSP400)

Fig.1 - Forward Characteristics

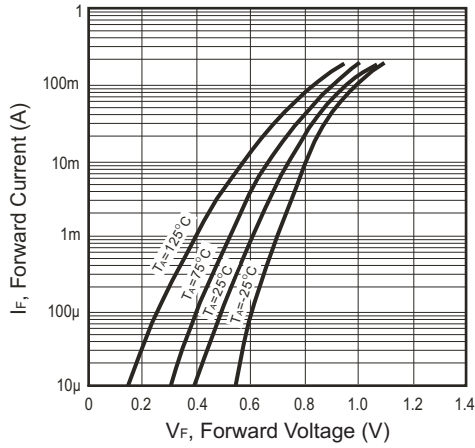


Fig.2 - Reverse Characteristics

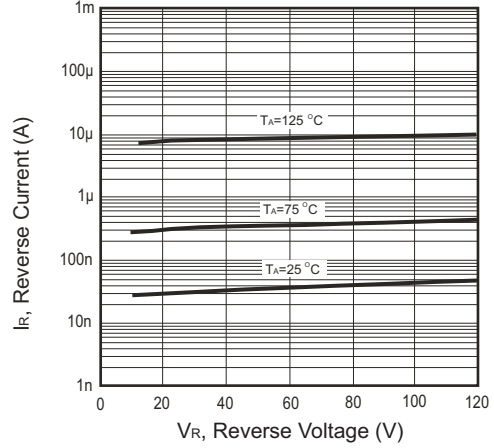


Fig.3 - Capacitance between terminals

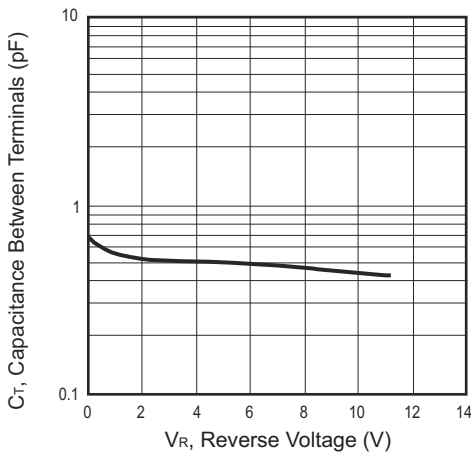


Fig.4 - Reverse Recovery Time Characteristics

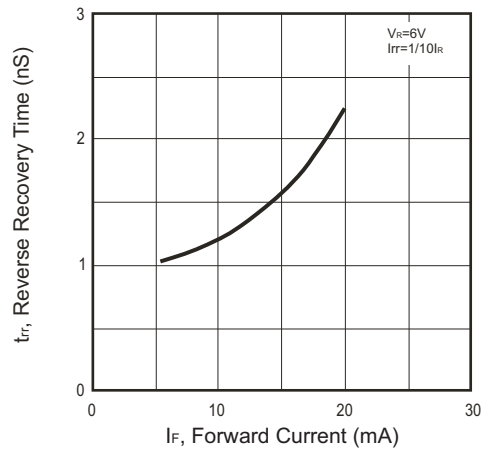


Fig.5 - Surge Current Characteristics

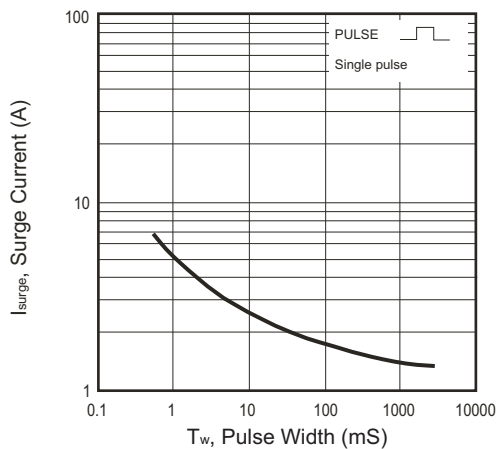


Fig.6 - Reverse Recovery Time (t_{rr}) Measurement Circuit

