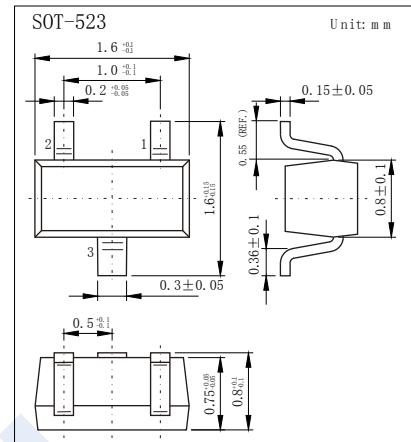
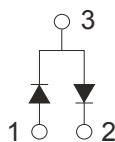


## Switching Diodes

### CDST 99

#### ■ Features

- High speed switching.
- Reverse Voltage: 70 Volts
- Forward Current: 200 mA
- High mounting capability, strong surge withstand, high reliability.



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V <sub>RM</sub>	70	V
Forward Current	I <sub>F</sub>	200	mA
Peak Forward Surge Current	I <sub>FM</sub>	500	
Power Dissipation	P <sub>d</sub>	150	mW
Thermal Resistance Junction to Ambient	R <sub>θ JA</sub>	556	°C/W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-55 to 150	

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V <sub>R</sub>	I <sub>R</sub> = 100 uA	70			V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 1 mA			0.715	
		I <sub>F</sub> = 10 mA			0.855	
		I <sub>F</sub> = 50 mA			1	
		I <sub>F</sub> = 150 mA			1.25	
Reverse voltage leakage current	I <sub>R</sub>	V <sub>R</sub> = 70 V			2.5	uA
Junction capacitance	C <sub>j</sub>	V <sub>R</sub> = 0 V, f= 1 MHz			1.5	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1xI <sub>R</sub> , R <sub>L</sub> =100Ω			6	ns

#### ■ Marking

Marking	C3
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## Switching Diodes

**CDST 99**

■ Typical Characteristics

Fig.1 - Forward Characteristics

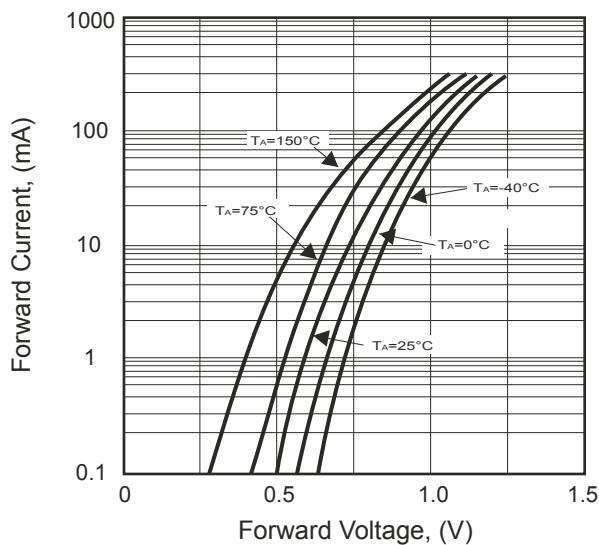


Fig.2 - Reverse Characteristics

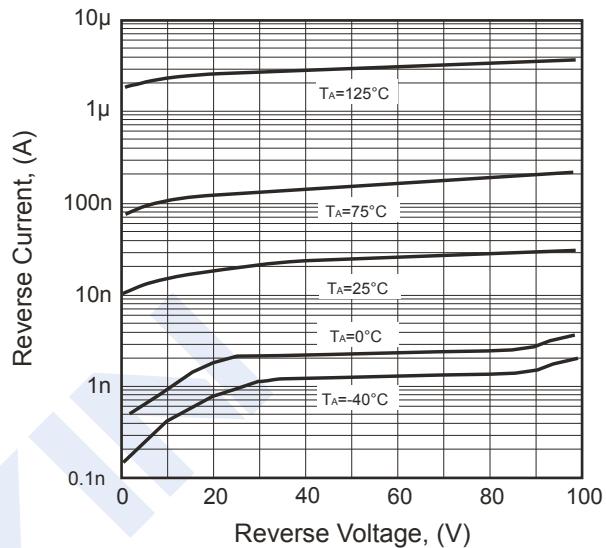


Fig.3 - Capacitance Between Terminals Characteristics

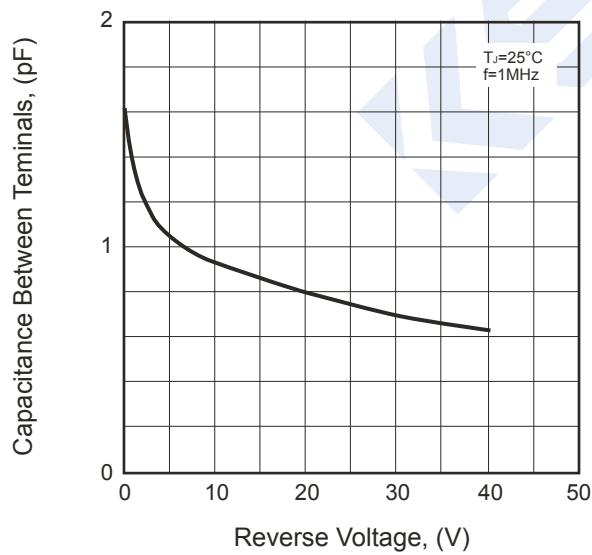


Fig.4 - Power Derating Curve

