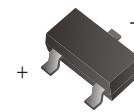


CDST19-G/20-G

High Speed
RoHS Device



Features

- Fast switching diode.
- Surface mount package ideally for automatic insertion.
- For general purpose switching applications.
- High conductance.

Mechanical data

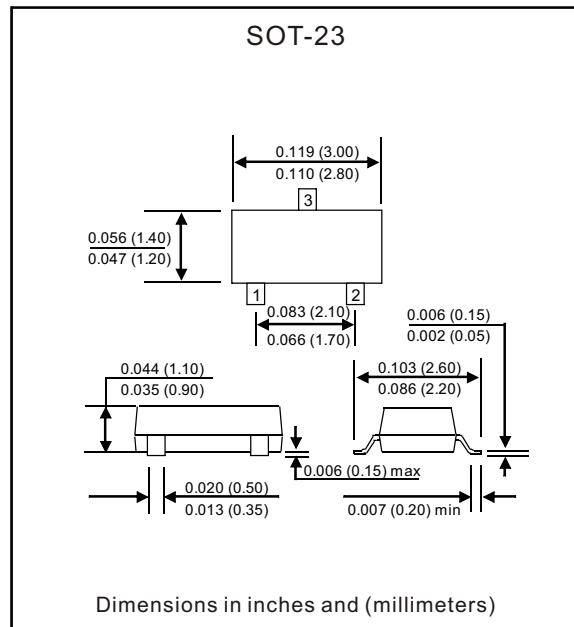
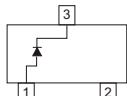
Case: SOT-23

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.

Weight: 0.008 gram.

Marking: CDST19-G JP
CDST20-G JR

Circuit Diagram



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Symbol	CDST19-G	CDST20-G	Unit
Non-Repetitive peak reverse voltage	V _{RM}	100	150	V
DC blocking voltage	V _R	100	150	V
Average rectified output current	I _O	200		mA
Power dissipation	P _D	250		mW
Thermal resistance-Junction to ambient air	R _{θJA}	500		°C/W
Junction temperature	T _J	150		°C
Storage temperature range	T _{STG}	-65 ~ +150		°C

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

Parameter	Symbol	Test Conditions	Min	Max	Unit
Reverse breakdown voltage CDST19-G CDST20-G	V _{BR}	I _R =100uA	100 150		V
Reverse leakage current CDST19-G CDST20-G	I _R	V _R =100V V _R =150V		0.1	UA
Forward voltage	V _F	I _F =100mA I _F =200mA		1 1.25	V
Junction capacitance	C _J	V _R =0V, f=1MHz		5	pF
Reverse recovery time	t _{rr}	I _F =I _R =30mA, I _{rr} =0.1xI _R		50	nS

SMD Switching Diodes

Characteristic Curves (CDST19-G/20-G)

Fig. 1 - Forward Characteristics

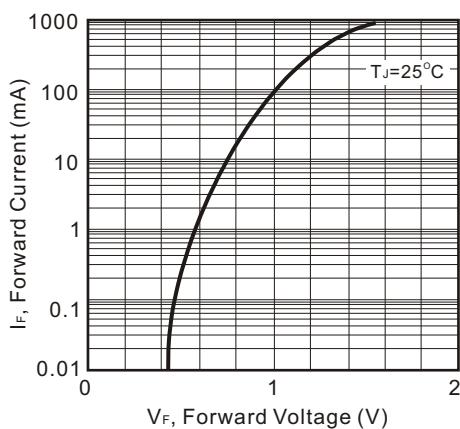


Fig. 2 - Leakage Current vs Junction Temperature

