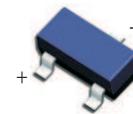


CDST4448-G

High Speed
RoHS Device

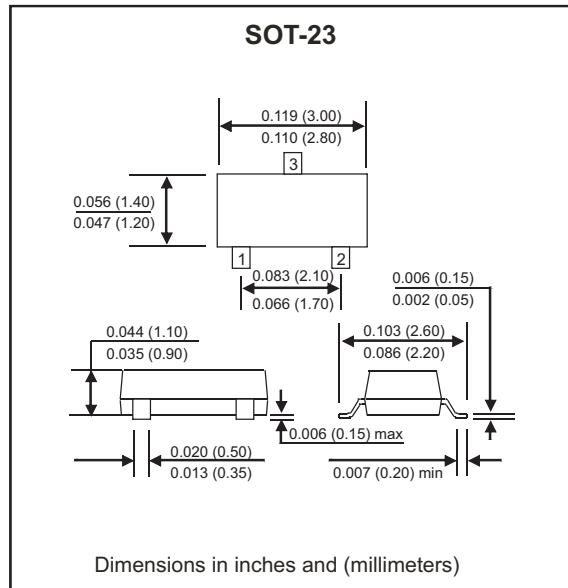


Features

- Fast switching diode.
- Surface mount package ideally suited 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: KA3



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

Parameter	Symbol	Limits	Unit
Non-Repetitive peak reverse voltage	V _{RM}	100	V
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V _{R_{RRM}} V _{R_{WM}} V _R	75	V
RMS reverse voltage	V _{R(RMS)}	53	V
Forward continuous current	I _{FM}	500	mA
Average rectified output current	I _O	250	mA
Peak forward surge current @1μS @1.0S	I _{FSM}	4.0 2.0	A
Power dissipation	P _D	350	mW
Thermal resistance-Junction to ambient air	R _{θJA}	357	°C/W
Storage temperature range	T _{STG}	-65 ~ +150	°C

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

Parameter	Symbol	Test Conditions	Min	Max	Unit
Forward voltage	V _{F1} V _{F2} V _{F3} V _{F4}	I _{F1} =5mA I _{F2} =10mA I _{F3} =100mA I _{F4} =150mA	0.62	0.72 0.855 1.0 1.25	V
Reverse current	I _{R1} I _{R2}	V _{R1} =75V V _{R2} =20V		2.5 25	μA nA
Capacitance between terminals	C _T	V _R =0V, f=1MHz		4	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1I _R , R _L =100Ω		4	nS

SMD Switching Diode

Comchip
SMD Diode Specialist

Characteristic Curves (CDST4448-G)

Fig.1 - Forward Characteristics

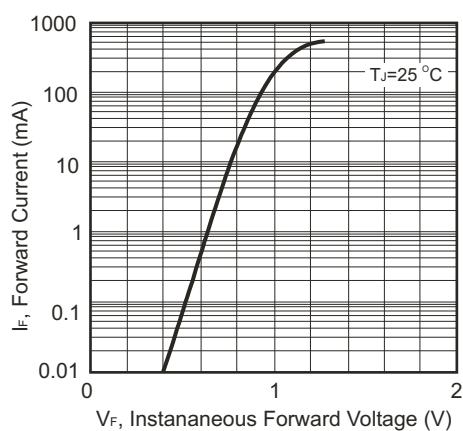


Fig.2 - Leakage Current vs Junction Temperature

