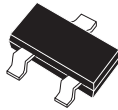


CMPD4448

HIGH SPEED SWITCHING DIODE



SOT-23 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD4448 type is a ultra-high speed silicon switching diode manufactured by the epitaxial planar process, in an epoxy molded surface mount package, designed for high speed switching applications.

Marking code is AAD.

MAXIMUM RATINGS (T_A=25°C)

	SYMBOL		UNITS
Continuous Reverse Voltage	V _R	75	V
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	I _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	250	mA
Forward Surge Current, tp=1 μsec.	I _{FSM}	4000	mA
Forward Surge Current, tp=1 sec.	I _{FSM}	1000	mA
Power Dissipation	P _D	350	mW
Operating and Storage			
Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	357	°C/W

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V _{BR}	I _R =5.0μA	75		V
V _{BR}	I _R =100μA	100		V
I _R	V _R =20V		25	nA
V _F	I _F =5.0mA	0.62	0.72	V
V _F	I _F =100mA		1.0	V
C _T	V _R =0, f=1 MHz		4.0	pF
t _{rr}	I _R =I _F =10mA, R _L =100Ω, Rec. to 1.0mA		4.0	ns

All dimensions in inches (mm).

