CMYD4448

SURFACE MOUNT SILICON DUAL, ISOLATED HIGH SPEED SWITCHING DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMYD4448 contains two (2) isolated configuration silicon switching diodes, manufactured by the epitaxial planar process, epoxy molded in an SOT-543 surface mount package. This device is designed for high speed switching applications.

MARKING CODE: C48

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	120	V
Continuous Forward Current	l _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	500	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ.ΙΔ	500	°C/W

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

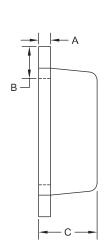
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	V _R =50V			300	nA
IR	V _R =50V, T _A =125°C			100	μΑ
I_{R}	V _R =100V			500	nA
BV_R	I _R =100μA	120	150		V
V_{F}	I _F =1.0mA	0.55	0.59	0.65	V
V_{F}	I _F =10mA	0.67	0.72	0.77	V
V_{F}	I _F =100mA	0.85	0.91	1.0	V
CJ	V _R =0, f=1.0MHz			1.5	pF
t _{rr}	$I_R = I_F = 10 \text{mA}, I_{rr} = 1.0 \text{mA}, R_I = 100 \Omega$		2.0	4.0	ns

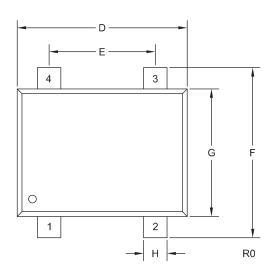
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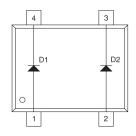


SOT-543 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.002	0.007	0.07	0.17			
В	0.004	0.012	0.10	0.30			
С	0.019	0.024	0.50	0.60			
D	0.059	0.067	1.50	1.70			
Е	0.035	0.044	0.90	1.10			
F	0.059	0.067	1.50	1.70			
G	0.044	0.052	1.10	1.30			
Η	0.006	0.011	0.17	0.27			
SOT-543 (REV: R0)							

LEAD CODE:

- 1) Anode D1
- 2) Anode D2
- 3) Cathode D2
- 4) Cathode D1

MARKING CODE: C48

R2 (19-June 2019)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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