CSDD-8M CSDD-8N

SURFACE MOUNT SILICON CONTROLLED RECTIFIERS 8.0 AMP, 600 THRU 800 VOLT



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSDD-8M series type is an Epoxy Molded Silicon Controlled Rectifier designed for sensing circuit applications and control systems.

MARKING: FULL PART NUMBER



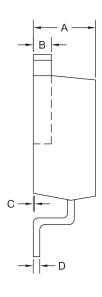
MAXIMUM RATINGS: (T _C =25°C unless otherwise noted)		SYMBOL	CSDD-8M	CSDD-8N	UNITS			
Peak Repetitive Off-State Voltage		V _{DRM} , V _{RRM}	600	800	V			
RMS On-State Current (T _C =90°C)		I _T (RMS)	8.0		Α			
Peak One Cycle Surge, t=10ms		I _{TSM}	70		Α			
I ² t Value for Fusing, t=10ms		I ² t	24		A^2s			
Peak Gate Pow	er, tp=10µs	P_{GM}	SM 40		W			
Average Gate P	ower Dissipation	P _{G(AV)}	1	.0	W			
Peak Forward Gate Current, tp=10µs		IFGM	4.0		Α			
Peak Forward Gate Voltage, tp=10µs		V_{FGM}	16		V			
Peak Reverse Gate Voltage, tp=10µs		V_{RGM}	5.0		V			
Critical Rate of Rise of On-State Current		di/dt	50		A/µs			
Operating Junction Temperature		T_J	-40 to +125		°C			
Storage Temperature		T _{stg}	-40 to +150		°C			
Thermal Resistance		Θ_{JA}	60		°C/W			
Thermal Resistance		Θ JC	2.5		°C/W			
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)								
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS			
IDRM, IRRM	Rated V _{DRM,} V _{RRM}			10	μΑ			
IDRM, IRRM	Rated V _{DRM,} V _{RRM,} T _C =125°C			2.0	mA			
l _{GT}	$V_D=12V$, $R_L=10\Omega$		3.0	15	mA			
lΗ	I _T =100mA		7.3	20	mA			
V_{GT}	$V_D=12V$, $R_L=10\Omega$		0.9	1.5	V			
V_{TM}	I _{TM} =16A, tp=380μs		1.3	1.8	V			
dv/dt	$V_{D}^{=2}/_{3} V_{DRM, T_{C}}^{=125^{\circ}C}$	200			V/µs			

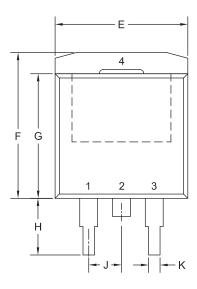
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D²PAK CASE - MECHANICAL OUTLINE





R3

LEAD CODE:

- 1) Cathode
- 2) Anode 3) Gate
- 4) Anode

MARKING:

FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.163	0.189	4.14	4.80			
В	0.045	0.055	1.14	1.40			
С	0.000	0.010	0.00	0.25			
D	0.012	0.028	0.30	0.70			
E	0.386	0.415	9.80	10.55			
F	0.378	0.417	9.60	10.60			
G	0.335	0.358	8.50	9.10			
Н	0.188	0.236	4.78	6.00			
J	0.093	0.108	2.35	2.75			
K	0.030	0.035	0.75	0.90			
DODAY (DEV): DO							

D2PAK (REV: R3)

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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