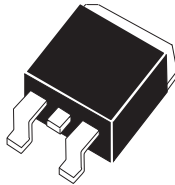


[查询"CSDD-12M"供应商](#)

CSDD-12M
CSDD-12N

SILICON CONTROLLED RECTIFIER
12 AMP, 600 THRU 800 VOLTS



D²PAK CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSDD-12M series type is an Epoxy Molded Silicon Controlled Rectifier designed for sensing circuit applications and control systems.

MARKING CODE: FULL PART NUMBER

MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

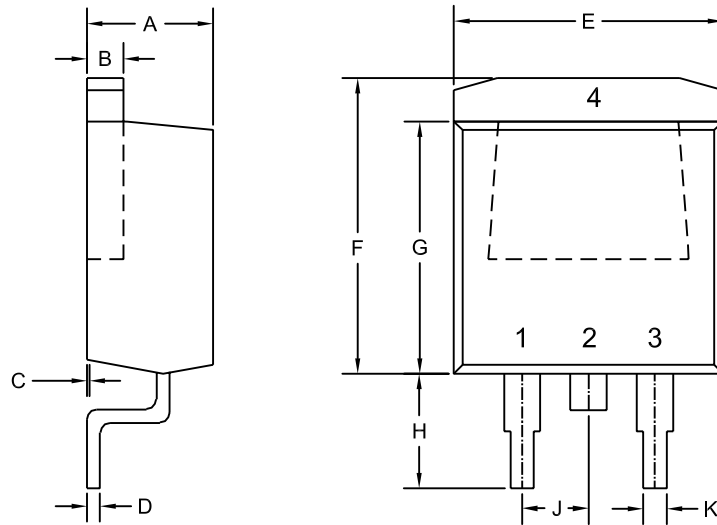
	SYMBOL	CSDD -12M	CSDD -12N	UNITS
Peak Repetitive Off-State Voltage	V _{DRM} , V _{RRM}	600	800	V
RMS On-State Current (T _C =90°C)	I _{T(RMS)}	12		A
Peak One Cycle Surge (t=10ms)	I _{TSM}	110		A
I ² t Value for Fusing (t=10ms)	I ² t	60		A ² s
Peak Gate Power (tp=10μs)	P _{GM}	40		W
Average Gate Power Dissipation	P _{G (AV)}	1.0		W
Peak Forward Gate Current (tp=10μs)	I _{FGM}	4.0		A
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	100		A/μs
Storage Temperature	T _{stg}	-40 to +150		°C
Junction Temperature	T _J	-40 to +125		°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
I _{DRM} , I _{RRM}	Rated V _{DRM} , V _{RRM}			10	μA
I _{DRM} , I _{RRM}	Rated V _{DRM} , V _{RRM} , T _C =125°C			3.0	mA
I _{GT}	V _D =12V, R _L =10Ω		3.5	15	mA
I _H	I _T =100mA		8.7	20	mA
V _{GT}	V _D =12V, R _L =10Ω		0.64	1.50	V
V _{TM}	I _{TM} =24A, tp=380μs		1.21	1.60	V
dv/dt	V _D = ² / ₃ V _{DRM} , T _C =125°C	200			V/μs

SILICON CONTROLLED RECTIFIER
12 AMP, 600 THRU 800 VOLTS

D²PAK CASE - MECHANICAL OUTLINE



R2

LEAD CODE:

- 1) CATHODE
- 2) ANODE
- 3) GATE
- 4) ANODE

MARKING CODE:

FULL PART NUMBER

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.163	0.189	4.14	4.80
B	0.045	0.055	1.14	1.40
C	0.000	0.010	0.00	0.25
D	0.012	0.028	0.30	0.70
E	0.386	0.409	9.80	10.40
F	0.378	0.417	9.60	10.60
G	0.335	0.358	8.50	9.10
H	0.197	0.236	5.00	6.00
J	0.093	0.108	2.35	2.75
K	0.030	0.035	0.75	0.90

D2PAK (REV: R2)

R1 (24-September 2004)