MCR716 MCR718

SURFACE MOUNT SILICON CONTROLLED RECTIFIERS 4.0 AMP, 400 THRU 600 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MCR716 and MCR718 are epoxy molded SCRs designed for sensing circuit and control system applications.

MARKING: FULL PART NUMBER



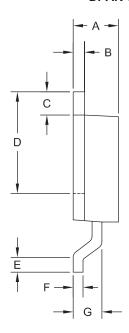
MAXIMUM RATINGS: (T _C =25°C unless otherwise noted) SYMBOL MCR716 MCR718 UNIT								
Peak Repetitiv	ve Off-State Voltage	VDRM, VRRM		400	600	V		
RMS On-State	e Current (T _C =85°C)	I _T (RMS)		4.0	0	Α		
Peak non-Rep	petitive Surge Current	, ,						
(1/2 cycle Sine wave, 50Hz/60Hz)		ITSM		15	5	Α		
I²t Value for Fusing, t=10ms		I ² t		1.	1	A^2s		
Peak Gate Power, tp=1.0µs		P_{GM}		0.5		W		
Average Gate	Power Dissipation	P _G (AV)		0.	1	W		
Peak Gate Current, tp=1.0µs		I _{GM}		0.2		Α		
Critical Rate of Rise of On-State Current		di/dt		50		A/µs		
Storage Temperature		T _{stg}		-40 to	+150	°C		
Junction Temp	perature	T_J		-40 to	+125	°C		
		noted) MIN	ТҮР	MAX 10	UNITS μΑ			
I _{DRM,} I _{RRM}	Rated V _{DRM} , V _{RRM} , R _{GK} =1.0K	Ω, T _C =125°C			200	μΑ		
I _{GT}	$V_D=12V$, $R_L=10\Omega$		1.0	38	75	μΑ		
lΗ	I_T =50mA, R_{GK} =1.0KΩ			0.25	2.0	mA		
V_{GT}	V_D =12V, R_L =10 Ω			0.55	0.8	V		
V_{TM}	I _{TM} =8.0A, tp=380μs			1.6	1.8	V		
dv/dt	$V_D=2/3$ V_{DRM} , $R_{GK}=1.0K\Omega$, $T_C=1.0K\Omega$:125°C	10			V/µs		

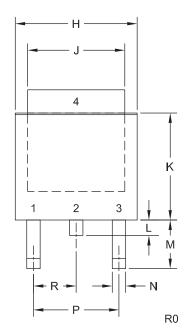
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DPAK CASE - MECHANICAL OUTLINE





LEAD CODE:

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

MARKING: FULL PART NUMBER

DIMENGIONO									
DIMENSIONS									
	INCHES		MILLIMETERS						
SYMBOL	MIN	MAX	MIN	MAX					
Α	0.083	0.108	2.10	2.75					
В	0.016	0.032	0.40	0.81					
С	0.035	0.063	0.89	1.60					
D	0.203	0.228	5.15	5.79					
E	0.020	-	0.51	-					
F	0.018	0.024	0.45	0.60					
G	0.051	0.071	1.30	1.80					
Н	0.248	0.268	6.30	6.81					
J	0.197	0.217	5.00	5.50					
K	0.209	0.245	5.30	6.22					
L	0.025	0.040	0.64	1.02					
M	0.090	0.115	2.30	2.91					
N	0.012	0.045	0.30	1.14					
Р	0.1	80	4.60						
R	0.0	90	2.30						
DDAK (DEV DO)									

DPAK (REV: R0)

R2 (21-January 2013)

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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