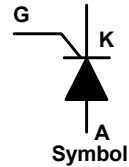


Case D-PAK Plastic



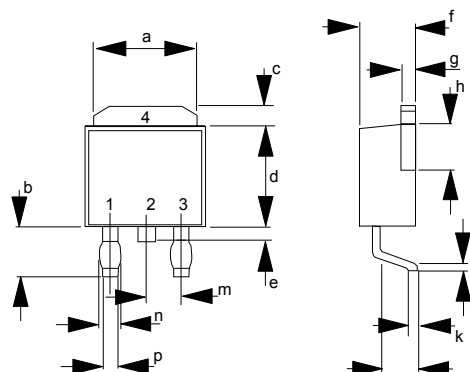
MAXIMUM RATINGS ( $T_J = 25\text{ }^\circ\text{C}$ unless stated otherwise)				
Parameter	Symbol	MCR716	MCR718	Unit
Repetitive Peak Off-State Voltage	$V_{RRM}$	400	600	Volt
On-State RMS Current	$I_{T(RMS)}$	4.0 at $t_c = 90^\circ\text{C}$		Amp
Peak Non-Repetitive Surge Current	$I_{TSM}$	25		Amp
$I^2T$ for Fusing 8.3ms	$I^2T$	2.6		A <sup>2</sup> /S
Peak Reverse Gate Voltage	$V_{GRM}$	18		Volt
Peak Gate Current	$I_{GM}$	0.2		Amp
Forward Average Gate Power	$P_{G(AV)}$	0.1		Watt
Forward Peak Gate Power	$P_{GM}$	0.5		Watt
Maximum Storage Temperature Range	$T_{(STG)}$	-40 to +150		$^\circ\text{C}$
Maximum Junction Temperature Range	$T_J$	-40 to +110		$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS at $T_J = 25\text{ }^\circ\text{C}$ Maximum. Unless stated Otherwise						
Parameter	Symbol	Condition	Value			Unit
			Min	Typ	Max	
Peak Forward On-State Voltage	$V_{TM}$	$I_{TM} = 8.2$ Amps		1.5	2.2	Volt
Repetitive Peak Reverse Current	$I_{RRM}$	$V_R = V_{RRM}, t_J = 110^\circ\text{C}$			200	$\mu\text{A}$
Gate Trigger Voltage	$V_{GT}$		0.30	0.55	0.80	Volt
Gate Trigger Current	$I_{GT}$		1.0	25	75	$\mu\text{A}$
Latch Current	$I_L$				5.0	mA
Holding Current	$I_H$		0.4	1.0	5.0	mA
Thermal Resistance (Junction to Case)	$R_{TH(J-C)}$				3.0	$^\circ\text{C}/\text{W}$
Rate of Rise of Off-State Voltage	dV/dt		5.0	10		V/ $\mu\text{s}$
Rate of Rise of Off-State Current	dA/dt				100	A/ $\mu\text{s}$

**Mechanical Dimensions**

Dim	Millimetres		Inches	
	Min	Max	Min	Max
a	6.35	6.73	0.250	0.265
b	2.60	2.89	0.102	0.114
c	0.77	1.27	0.030	0.050
d	5.97	6.35	0.235	0.25
e	0.51	1.27	0.020	0.050
f	2.19	2.38	0.086	0.094
g	0.84	1.01	0.033	0.040
h	3.51		0.138	
i	0.51		0.020	
k	0.46	0.580	0.018	0.023
m	2.29 Pitch		0.09 Pitch	
n	0.94	1.19	0.037	0.047
p	0.69	0.88	0.027	0.035

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



Case D-PAK Plastic