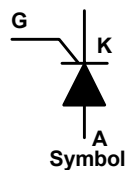


Case D-PAK Plastic



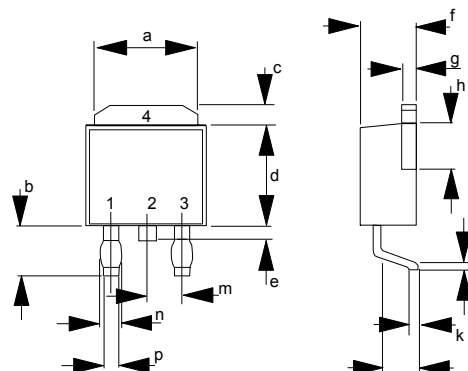
MAXIMUM RATINGS ($T_J = 25^\circ\text{C}$ unless stated otherwise)				
Parameter	Symbol	MCR716	MCR718	Unit
Repetitive Peak Off-State Voltage	V_{RRM}	400	600	Volt
On-State RMS Current	$I_{T(RMS)}$	4.0 at $t_c = 90^\circ\text{C}$		Amp
Peak Non-Repetitive Surge Current	I_{TSM}	25		Amp
I^2t for Fusing 8.3ms	I^2t	2.6		A^2/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 $T_J = 25^\circ\text{C}$ 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	μA
Gate Trigger Voltage	V_{GT}		0.30	0.55	0.80	Volt
Gate Trigger Current	I_{GT}		1.0	25	75	μA
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		$\text{V}/\mu\text{S}$
Rate of Rise of Off-State Current	dA/dt				100	$\text{A}/\mu\text{S}$

Mechanical Dimensions

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	
j	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