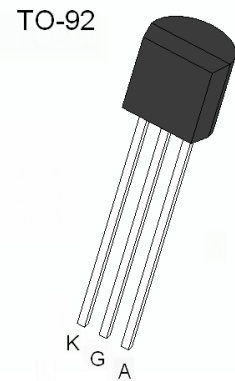


DESCRIPTION

Designed and tested for repetitive peak operation required for CD ignition, fuel ignitors, flash circuits, motor controls and low-power switching applications.

Features

- 150 Amperes for 2ms Safe Area
- High dv/dt
- Very Low On state voltage at High Current
- Low-Cost TO-92



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value		Unit
		MCR22-6G	MCR22-8G	
Peak Repetitive Forward Voltage	V_{DRM}	400	600	V
Reverse Blocking Voltage	V_{RRM}	400	600	V
On-State Current	$I_{T(RMS)}$	1.5		A
Peak Forward Surge Current	I_{TSM}	15		A
Circuit Fusing Considerations (t = 8.3 ms)	I^2t	0.9		A ² S
Peak Reverse Gate Voltage	V_{GRM}	5		V
Peak Gate Current	I_{GM}	0.1		A
Gate Dissipation	$P_{G(AV)}$	0.1		W
Storage Temperature	T_J, T_{STG}	-40 ~ +125		°C

Electrical Characteristics (Ta=25°C)

Parameter		Symbol	Conditions	Value		Unit
				Min	Max	
Peak Forward and Reverse Blocking Voltage	MCR22-6G	V_{DRM}, V_{RRM}	$V_{AK} = 400V$ $V_{AK} = 600V$	400		V
	MCR22-8G			600		
Peak Forward and Reverse Blocking Current	MCR22-6G	I_{DRM}, I_{RRM}	$V_{AK} = 400V$ $V_{AK} = 600V$		10	μA
	MCR22-8G					
On state voltage		V_{TM}	$I_{TM} = 1A$		1.7	V
Gate trigger voltage		V_{GT}	$V_{AK} = 7V, R_L = 100\Omega$		0.8	V
Gate trigger current		I_{GT}	$V_{AK} = 7V, R_L = 100\Omega$		200	μA
Holding current		I_H	$V_{AK} = 12V$		5	mA