



1. Cathode 2. Gate 3. Anode

TO-92 Plastic Package Weight approx. 0.18g

Rating Peak Repetitive Forward and Reverse Blocking		Symbol	Value	Unit
Voltage, Note 1	Note 1 MCR100-3		100	
(T _J =25 to 125°C, R _{GK} =1K Ω)	MCR100-4	V _{DRM} and V _{RRM}	200	Volts
	MCR100-5		300	
	MCR100-6		400	
	MCR100-7		500	
	MCR100-8		600	
Forward Current RMS			0.8	Amps
(All Conduction Angles)		I _{T(RMS)}		
Peak Forward Surge Current, T _{A=} 25°C			10	٨٣٣٥
(1/2 Cycle, Sine Wave, 60Hz)		I _{TSM}	10	Amps
Circuit Fusing (t=8.3ms)		l ² t	0.415	A ² s
Peak Gate Power - Forward, T _A =25°C		P _{GM}	0.1	Watts
Average Gate Power - Forward, T _A =25°C		P _{GF(AV)}	0.01	Watt
Peak Gate Current - Forward, T _A =25°C (300µs,120PPS)		I _{GFM}	1	Amp
Operating Junction Temperature Range @ Rated V_{RRM} and V_{DRM}		TJ	-40 to +125	°C
Storage Temperature Range		Ts	-40 to +150	°C

MAXIMUM RATINGS (T_J=25°C unless otherwise noted.)

Note 1. Ratings apply for zero or negative gate voltage; however, positive gate voltage shall not be applied concurrent with negative potential on the anode.

GSP FORM A IS AVAILABLE





Characteristic	Symbol	Min	Max	Unit
Peak Forward or Reverse Blocking Current	I _{DRM} ,I _{RRM}			
(V_{AK} =Rated V_{DRM} or V_{RRM})		-	10	μA
Forward "On" Voltage	V_{TM}	-	1.7	Volts
(I _™ =1A Peak @T _A =25°C)				
Gate Trigger Current(Continuous dc),Note 1	I _{GT}	-	200	μA
(Anode Voltage=7Vdc,R _L =100 Ohms)				
Gate Trigger Voltage(Continuous dc)	V_{GT}	-	0.8	Volts
(Anode Voltage=7Vdc,R _L =100 Ohms)				
(Anode Voltage=Rated V_{DRM} , R _L =100 Ohms)				
Holding Current	I _H	-	5	mA
(Anode Voltage=7Vdc,initiating current=20mA)				

CHARACTERISTICS (Tc=25°C, RGK=1K\Omega unless otherwise noted.)

Note 1. R_{GK} current is not included in measurement.

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