



1. Cathode 2. Gate 3. Anode

TO-92 Plastic Package Weight approx. 0.18g

Rating		Symbol	Value	Unit	
Peak Repetitive Forward and Reverse Blocking	2 3	10			
Voltage, Note 1	MCR100-3	0.	100		
(T <sub>J</sub> =25 to 125°C, R <sub>GK</sub> =1KΩ) $($	MCR100-4	V <sub>DRM</sub>	200		
	MCR100-5	and	300	Volts	
	MCR100-6	V <sub>RRM</sub>	400		
	MCR100-7		500		
	MCR100-8		600		
Forward Current RMS		1	0.8	٨٣٣٥	
(All Conduction Angles)		I <sub>T(RMS)</sub>	0.8	Amps	
Peak Forward Surge Current, T <sub>A=</sub> 25°C		I <sub>TSM</sub>	10	٨٣٥٥	
(1/2 Cycle, Sine Wave, 60Hz)	le, Sine Wave, 60Hz)		10	Amps	
Circuit Fusing (t=8.3ms)		l <sup>2</sup> t	0.415	A <sup>2</sup> s	
Peak Gate Power - Forward, T <sub>A</sub> =25°C		P <sub>GM</sub>	0.1	Watts	
Average Gate Power - Forward, T <sub>A</sub> =25°C		P <sub>GF(AV)</sub>	0.01	Watt	
Peak Gate Current - Forward, T <sub>A</sub> =25°C (300µs,120PPS)		1	1	٨٣٥	
		GFM	1	Amp	
Peak Gate Voltage - Reverse		V <sub>GRM</sub>	5	Volts	
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<sub>J</sub>=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**





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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 <sub>TM</sub>	-	1.7	Volts
(I <sub>TM</sub> =1A Peak @T <sub>A</sub> =25°C)				
Gate Trigger Current(Continuous dc),Note 1	I <sub>GT</sub>	-	200	μA
(Anode Voltage=7Vdc,R <sub>L</sub> =100 Ohms)				
Gate Trigger Voltage(Continuous dc)	V <sub>GT</sub>	-	0.8	Volts
(Anode Voltage=7Vdc,R <sub>L</sub> =100 Ohms)				
(Anode Voltage=Rated V <sub>DRM</sub> ,R <sub>L</sub> =100 Ohms)				
Holding Current	I <sub>H</sub>	-	5	mA
(Anode Voltage=7Vdc,initiating current=20mA)				
Note 1. R <sub>GK</sub> current is not included in measurement.	.0			
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## CHARACTERISTICS (T<sub>c</sub>=25°C, R<sub>GK</sub>=1K $\Omega$ unless otherwise noted.)











