MCR264-4, MCR264-6, MCR264-8

Preferred Device

Silicon Controlled Rectifiers

Reverse Blocking Thyristors

Designed for back-to-back SCR output devices for solid state relays or applications requiring high surge operation.

- Photo Glass Passivated Blocking Junctions for High Temperature Stability, Center Gate for Uniform Parameters
- 400 Amperes Surge Capability
- Blocking Voltage to 600 Volts
- Device Marking: Logo, Device Type, e.g., MCR264−4, Date Code

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

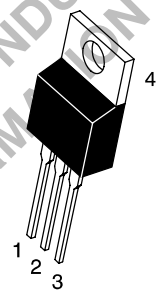
Rating	Symbol	Value	Unit
Peak Repetitive Off−State Voltage(1) (T_J = −40 to 125°C, Sine Wave 50 to 60 Hz; Gate Open) MCR264−4 MCR264−6 MCR264−8	V_{DRM}, V_{RRM}	 200 400 600	Volts
On-State RMS Current (T_C = 80°C; 180° Conduction Angles)	$I_{T(RMS)}$	40	A
Average On-State Current (T_C = 80°C; 180° Conduction Angles)	$I_{T(AV)}$	25	A
Peak Non-repetitive Surge Current (T_C = 80°C) (1/2 Cycle, Sine Wave 60 Hz, T_J = 125°C)	I_{TSM}	400 450	A
Forward Peak Gate Power (Pulse Width ≤ 1.0 μs, T_C = 80°C)	P_{GM}	20	Watts
Forward Average Gate Power (t = 8.3 ms, T_C = 80°C)	$P_{G(AV)}$	0.5	Watt
Forward Peak Gate Current (Pulse Width ≤ 1.0 μs, T_C = 80°C)	I_{GM}	2.0	A
Operating Junction Temperature Range	T_J	−40 to +125	°C
Storage Temperature Range	T_{stg}	−40 to +150	°C

(1) V_{DRM} and V_{RRM} for all types can be applied on a continuous basis. Ratings apply for zero or negative gate voltage; however, positive gate voltage shall not be applied concurrent with negative potential on the anode. Blocking voltages shall not be tested with a constant current source such that the voltage ratings of the devices are exceeded.
These devices are rated for use in applications subject to high surge conditions. Care must be taken to insure proper heat sinking when the device is to be used at high sustained currents.

ON Semiconductor

http://onsemi.com

SCRs
40 AMPERES RMS
200 thru 600 VOLTS



TO−220AB
CASE 221A
STYLE 3

PIN ASSIGNMENT	
1	Cathode
2	Anode
3	Gate
4	Anode

ORDERING INFORMATION

Device	Package	Shipping
MCR264−4	TO220AB	500/Box
MCR264−6	TO220AB	500/Box
MCR264−8	TO220AB	500/Box

Preferred devices are recommended choices for future use and best overall value.