

SEMITRONICS

C148/C149



INVERTER GRADE SCR

63 AMPS RMS TO--65

600-1200 VOLTS/10-40 μ SEC

FEATURES

- HIGH DV/DT WITH SOFT GATE CONTROL
- HIGH FREQUENCY OPERATION
- SINUSOIDAL WAVEFORM OPERATION TO 20KHZ
- RECTANGULAR WAVEFORM OPERATION TO 20KHZ
- LOW DYNAMIC FORWARD VOLTAGE DROP
- LOW SWITCHING LOSSES AT HIGH FREQUENCY

APPLICATIONS

- UPS INVERTERS
- INDUCTION HEATING INVERTERS
- HIGH FREQUENCY LIGHTING
- CYCLOCONVERTERS
- CHOPPERS
- DC TO DC CONVERSION

C148

SYMBOL	C148M	C148N	C148P	C148PB
V_{DRM}	600	800	1000	1200
V_{RRM}	600	800	1000	1200
V_{RSM}	720	960	1200	1440
$I_{T(RMS)}$	63	63	63	63
$I_{TSM @60HZ}$	700	700	700	700
$I_{TSM @50HZ}$	670	670	670	670
DI/DT- NON REPETITIVE	100	100	100	100
DI/DT - REPETITIVE	75	75	75	75
I_2T	2000	2000	2000	2000
$P_{G(AV)}$	2	2	2	2
STORAGE TEMP	- 40 TO 150	- 40 TO 150	- 40 TO 150	- 40 TO 150
OPERATING TEMP	- 40 TO 125	- 40 TO 125	- 40 TO 125	- 40 TO 125

C149

SYMBOL	C149A	C149B	C149D	C149M
V_{DRM}	100	200	400	600
V_{RRM}	100	200	400	600
V_{RSM}	150	300	500	720
$I_{T(RMS)}$	63	63	63	63
$I_{TSM @60HZ}$	1000	1000	1000	1000
$I_{TSM @50HZ}$	920	920	920	920
DI/DT- NON REPETITIVE	200	200	200	200
DI/DT - REPETITIVE	100	100	100	100
I_2T	4150	4150	4150	4150
$P_{G(AV)}$	2	2	2	2
STORAGE TEMP	- 40 TO 150	- 40 TO 150	- 40 TO 150	- 40 TO 150
OPERATING TEMP	- 40 TO 125	- 40 TO 125	- 40 TO 125	- 40 TO 125