

SEMI CODE

SC 1500Hxx

PHASE CONTROL - SCR

RATING	CONDITIONS	SYMBOL	
ITAV forward current.	Tc=86°C, conduction angle 180 °	ITAV	1.500 A
R.M.S. on-state current.		ITRMS	2.400 A
ITSM Peak one cycle surge Current.		ITSM	28.500 A
Pt for fusing.	For fusing at 8.3msec Non-repetitive	Pt	3.370.000 A²s
di/dt max.		di/dt	100 A/μs
dv/dt min.	Rate-of-rise off-state voltage	dv/dt	400 V/μs
Tq-typical turn-off time		Tq	150μs
Igt max. gate trigger current.	It=250 A, di/dt=25 A /μsec, reapplied dv/dt=20v/μsec, linear to 0,8Vdm. @ 25°C	Igt	150 mA
Vgt máx. gate trigger voltage.	@ 25°C	Vgt	3,5 V
Vtm peak on-state voltage	@ Itm=4.000 A	Vtm	1,6 V
Rthjc máx. Thermal resistance junction-to-case.		Rthjc	0,025 °C/W
Rthcs máx. Thermal resistance Case-to-sink		Rthcs	0,005 °C/W
Tj min-máx. jnction operanting temperature.		Tjmin - máx.	-40°C-125 °C
F máx. Mounting torque required		Fmáx.	5.000 Lb.

VOLTAGE CODE	H08	H10	H12	H14	H16	H18
Repetitive peak voltages VRRM, VDRM	800	1000	1200	1400	1800	1800
Non-repetitive peak off-state voltage (V)						
Non-repetitive peak reverse voltage (V)	900	1100	1300	1500	1700	1900

Dimensions:

$\varnothing 3.63 \pm 0.02$ (0.14 x 0.12)
 MIN. DEPTH 2--HOLES.
 ONE IN CATHODE AND
 ONE IN ANODE.

$\varnothing 74.0$ (2.91) MAX.

$20^{\circ} \pm 5'$

4.75 (0.19) BLADE CONNECTOR

On-State Voltage (Volts)
 Forward Volt-Drop Calculations:
 $V_f = A + BLI_t + CL_f + D \sqrt{I_f}$

Notes:
 Dimensions in mm (inches)
 Mounting Force: 1900 - 2500 Kgf
 Weight: 510 grams

0.8 (0.03)

$\varnothing 47$ (1.85)

27.725 (1.091 02) COMPRESSED HEIGHT

0.8 (0.03)

$\varnothing 47$ (1.85)

$\varnothing 1.9$ (0.06) FOR AMP REC. No. 60599-1

Typical code : SC 1500H12 = 1.500 A ; 1.200 VRRM ; 1.200 VDRM ; Phase control-SCR.