



Silicon Controlled Rectifiers

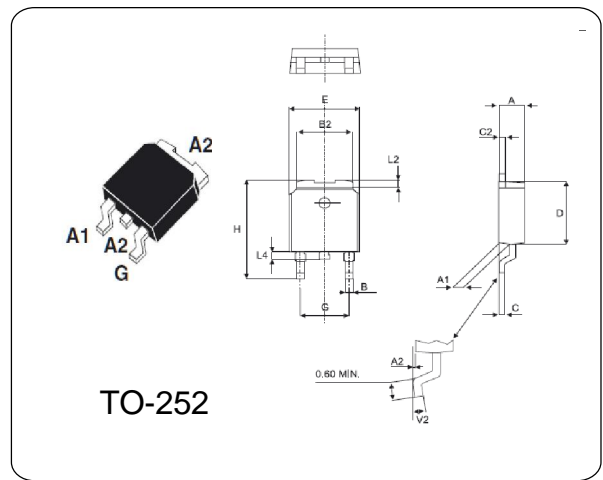
SCD6C60

DESCRIPTION

Standard gate triggering SCR is suitable for the application where requiring high bidirectional blocking voltage capability and also suitable for over voltage protection ,motor control circuit in power tool, inrush current limit circuit and heating control system.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Typ	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	600	V
Average on-state current	$I_{T(AV)}$	3.8	A
RMS on-state current	$I_{T(RMS)}$	6.0	A
Non-repetitive peak on-state current	I_{TSM}	66	A
Max. Operating Junction Temperature	T_j	110	°C
Storage Temperature	T_{stg}	-45~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}		600	—	—	V
Average on-state current	$I_{T(AV)}$	half sine wave; $T_{mb} < 103\text{ °C}$	—	3.8	—	A
RMS on-state current	$I_{T(RMS)}$	all conduction angles	—	6.0	—	A
On-state voltage	V_{TM}	$I_{TM}=9.0A, t_p=380\ \mu s$	—	—	1.6	V
Holding current	I_H	$V_D = 12\text{ V}; I_{GT} = 0.1\text{ A}$	—	—	20	mA
Latching current	I_L	$V_D = 12\text{ V}; I_{GT} = 0.1\text{ A}$	—	—	50	mA
Gate trigger current	I_{GT}	$V_D = 12\text{ V}; I_T = 0.1\text{ A}$	—	—	15	mA
Gate trigger voltage	V_{GT}	$V_D = 12\text{ V}; I_T = 0.1\text{ A}$	—	—	1.5	V