SanRex_®

Thyristor/Thyristor Thyristor/Diode

IT(AV) = 160A, VRRM = 800 - 1800V

SanRex Thyristor/Thyristor (SCA series), Thyristor/Diode (SCE series) are designed for general purpose high voltage applications. The modules are in an Isolated Industrial Standard Package.

Features

- * Glass-passivated Junctions Feature
- * High Surge Current (ITSM=5900A)
- * Low On-State Voltage Drop (VTM=1.4V)
- * UL E76102 approved
- * RoHS compliance

Typical Applications

- * Welders
- * Uninterruptible Power Supplies (UPS)
- * Temperature and Lighting Controls
- * Soft Starters
- * Battery Chargers

< Maximum Ratings > Ti = 25°C (unless otherwise noted) per diode

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	Item	Ratings				l
Symbol		SCA160AA80 SCE160AA80	SCA160AA120 SCE160AA120	SCA160AA SCE160AA		Unit
V_{RRM}	Repetitive Peak Reverse Voltage	800	1200	1600	1800	V
V_{RSM}	Non-Repetitive Peak Reverse Voltage	960	1300	1700	1900	V
V_{DRM}	Repetitive Peak Off-state Voltage	800	1200	1600	1800	V
I _{T(AV)}	Average On-state Current	T _C =88℃			160	Α
I _{T(RMS)}	R.M.S. On-state Current	T _C = 88℃			251	Α
I _{TSM}	Surge On-state Current	1/2 cycle, 50Hz/60Hz, Peak value, Non-repetitive			5400/5900	Α
l²t	I ² t (for fusing)	Value for one cycle surge current			145000	A ² s
P_{GM}	Peak Gate Power Dissipation				10	W
P _{G(AV)}	Average Gate Power Dissipation				3	W
I _{FGM}	Peak Gate Current				3	Α
V _{FG M}	Peak Gate Voltage (Forward)				10	V
V_{RGM}	Peak Gate Voltage (Reverse)		•		5	V

di/dt Critical Rate of Rise of On-state Current I _G=100mA, V_D=1/2V_{DRM}, dig/dt=0.1A/