

Part: S4025R
 Series: Teccor® SCR Devices
 Technology: SCRs

PARAMETERS		
Package Type	Pkg Type	Radial Leaded
Mount Method	Mount	Through hole
Critical Rate-of-rise of On-state Current	di/dt (A/Âµs)	150
Critical rate-of-rise of applied forward voltage	dv/dt @ 100Â°C V/Âµs	450
Peak off-state forward and reverse current	I _{DRM} &I _{RRM} @ 100Â°C (mA)	1.0000
Peak off-state forward and reverse current	I _{DRM} &I _{RRM} @ 125Â°C (mA)	2.0000
Peak off-state forward and reverse current	I _{DRM} &I _{RRM} @ 25Â°C (mA)	0.0100
Peak Gate Current	I _{GM} (A)	3
Average on-state current	I _{T(AV)} MAX (A)	16.0000
RMS Surge (Non-repetitive) On-state Fusing Current	I ² t (A ² Sec)	510
Average Gate Power Dissipation	P _{G(AV)} (W)	0.8000
Peak Gate Power Dissipation	P _{GM} (W)	35
Package Size/Form Factor	size	TO-220
Gate-controlled Turn-on time	T _{GT} (Âµs)	2
Circuit commutated turn-off time	T _Q (Âµs)	35
Peak Reverse Gate Voltage	V _{G_{RM}} MIN (V)	0
Gate Trigger Voltage	V _{GT} @ 110Â°C min (V)	0.0000
Gate Trigger Voltage	V _{GT} @ 125Â°C min (V)	0.2000
Peak on-state Gate Trigger Voltage	V _{G_{TM}} (V)	0.0000
Gate Trigger Voltage	V _{gt} @ 25Â°C max (V)	1.5000
Maximum on-state current	I _{T(RMS)} max (A)	25.0
Repetitive Peak Off-state Forward and Reverse Voltage	V _{DRM} & V _{RRM} (V)	400
Gate Trigger Current	I _{GT} MAX (mA)	35.00
Gate Trigger Current	I _{GT} MAX (ÂµA)	0
Gate Trigger Current	I _{GT} MIN (mA)	1.00
Gate Trigger Current	I _{GT} MAX (ÂµA)	0
Holding Current	I _H MAX (mA)	50
Surge (Non-repetitive) On-state current	I _{TSM} @ 60Hz (A)	350
Surge (Non-repetitive) On-state current	I _{TSM} @ 50Hz (A)	300
Peak on-state voltage at maximum rated RMS current	V _{TM} MAX (V)	1.6000
Critical rate-of-rise of applied forward voltage	dv/dt @ 125Â°C V/Âµs	350

