



Part: S2025R
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/ μ s)	150
Critical rate-of-rise of applied forward voltage	dv/dt @ 100 $^{\circ}$ C V/ μ s	450
Peak off-state forward and reverse current	I_{DRM} & I_{RRM} @ 100 $^{\circ}$ C (mA)	1.0000
Peak off-state forward and reverse current	I_{DRM} & I_{RRM} @ 125 $^{\circ}$ C (mA)	2.0000
Peak off-state forward and reverse current	I_{DRM} & I_{RRM} @ 25 $^{\circ}$ 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} (μ s)	2
Circuit commutated turn-off time	T_Q (μ s)	35
Peak Reverse Gate Voltage	V_{GRM} MIN (V)	0
Gate Trigger Voltage	V_{GT} @ 110 $^{\circ}$ C min (V)	0.0000
Gate Trigger Voltage	V_{GT} @ 125 $^{\circ}$ C min (V)	0.2000
Peak on-state Gate Trigger Voltage	V_{GTM} (V)	0.0000
Gate Trigger Voltage	V_{gt} @ 25 $^{\circ}$ 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)	200
Gate Trigger Current	I_{GT} MAX (mA)	35.00
Gate Trigger Current	I_{GT} MAX (μ A)	0
Gate Trigger Current	I_{GT} MIN (mA)	1.00
Gate Trigger Current	I_{GT} MAX (μ A)	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 @ 125 $^{\circ}$ C V/ μ s	350

