



Part: Q2040K7  
Series: Teccor® Alternistor Triac Devices  
Technology: Triacs

PARAMETERS		
Package Type	Pkg Type	Radial Leaded
Mount Method	Mount	Through Hole
Critical Rate-of-rise of On-state Current	di/dt (A/μs)	150
Critical rate-of-rise of off-state voltage	dv/dt @ 100°C (V/μs)	1100
Critical rate-of-rise of off-state voltage	dv/dt @ 125°C (V/μs)	700
Critical Rate-of-rise of Commutation Voltage of a Triac (commutating dv/dt)	dv/dt(c) TYP (V/μs)	50
Repetitive Peak off-state Current	I <sub>DRM</sub> @ 100°C max (mA)	2.0000
Repetitive Peak off-state Current	I <sub>DRM</sub> @ 110°C MAX (mA)	0.0000
Repetitive Peak off-state Current	I <sub>DRM</sub> @ 125°C max (mA)	5.0000
Repetitive Peak off-state Current	I <sub>DRM</sub> @ 25°C max (mA)	0.2000
Gate Trigger Current - Q4	I <sub>GT</sub> Q4 TYP (mA)	0
Peak gate trigger current	I <sub>GT</sub> M (A)	4.0000
RMS Surge (Non-repetitive) On-state Fusing Current	I <sup>2</sup> t (A <sup>2</sup> Sec)	664.0000
Average Gate Power Dissipation	P <sub>G(AV)</sub> (Watts)	0.8000
Peak Gate Power Dissipation	P <sub>GM</sub> (Watts)	40
Package Size / Form Factor	Size	TO-218
Gate-controlled Turn-on time	T <sub>GT</sub> TYP (μs)	5.0000
Maximum Gate Trigger Voltage	V <sub>GT</sub> MAX @ 125°C (V)	0.2000
Gate Trigger Voltage	V <sub>GT</sub> MAX @ 25°C (V)	2.5000
Peak on-state voltage a maximum rated RMS current	V <sub>TM</sub> (V)	1.8000
Maximum On-state Current	I <sub>T(RMS)</sub> MAX (A)	40
Repetitive Peak Off-state Voltage	V <sub>DRM</sub> MIN (V)	200
Gate Trigger Current - Q1	I <sub>GT</sub> Q1 MAX (mA)	100
Gate Trigger Current - Q2	I <sub>GT</sub> Q2 MAX (mA)	100
Gate Trigger Current - Q3	I <sub>GT</sub> Q3 MAX (mA)	100
Gate Trigger Current - Q4	I <sub>GT</sub> Q4 MAX (mA)	0
Maximum Holding Current	I <sub>H</sub> MAX (mA)	120
Surge (Non-repetitive) On-state current	I <sub>TSM</sub> @ 60Hz (A)	400
Surge (Non-repetitive) On-state current	I <sub>TSM</sub> @ 50Hz (A)	335
Certifications	Cert	

