

CR05AS■ Electrical Characteristics (Ta = 25°C, RGK = 1 k Ω unless otherwise noted.)

Parameter	Symbol	Test conditons	Min	Max	Unit
Peak Forward or Reverse Blocking Current	I_{DRM}, I_{RRM}	$V_{AK} = \text{Rated } V_{DRM} \text{ or } V_{RRM}$		10 100	μA
Forward "On" Voltage *1	V_{TM}	$I_{TM} = 1 A \text{ Peak @ } T_A = 25^\circ C$		1.7	V
Gate Trigger Current (Continuous DC) *2	I_{GT}	Anode Voltage = 7 V, $R_L = 100\Omega$		200	μA
Gate Trigger Voltage (Continuous DC)	V_{GT}	Anode Voltage=7V, $R_L=100\Omega$		0.8 1.2	V
Holding Current	I_H	Anode Voltage=7V, initiating current=20mA		5 10	mA

*1. Forward current applied for 1 ms maximum duration, duty cycle $\leq 1\%$.

■ Marking

Marking	CR05AS
---------	--------

CR05AS

■ Typical Characteristics

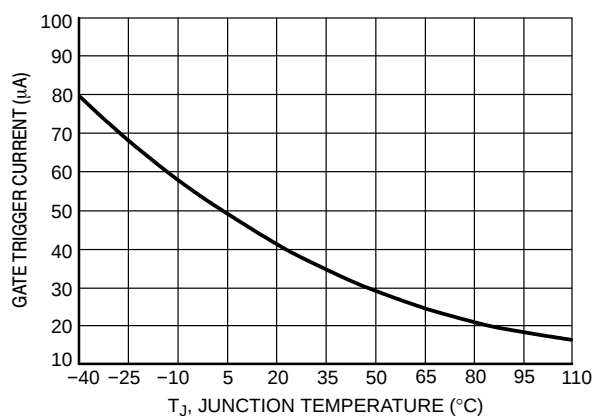


Figure 1. Typical Gate Trigger Current versus Junction Temperature

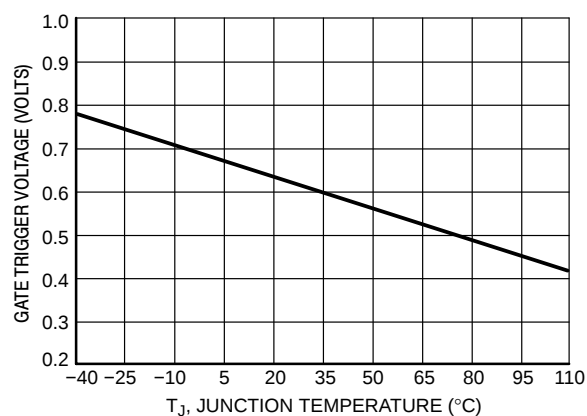


Figure 2. Typical Gate Trigger Voltage versus Junction Temperature

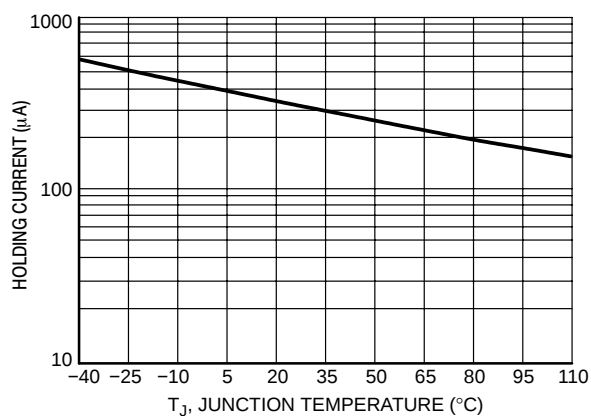


Figure 3. Typical Holding Current versus Junction Temperature

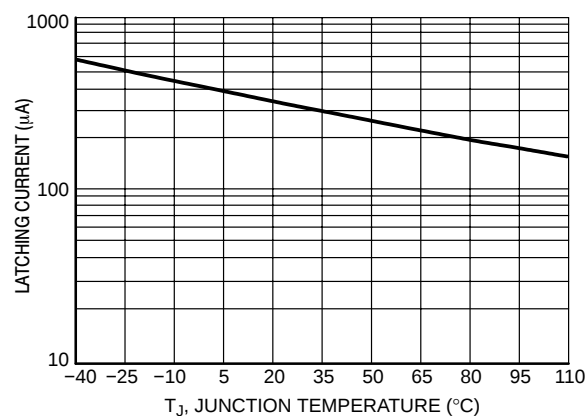


Figure 4. Typical Latching Current versus Junction Temperature

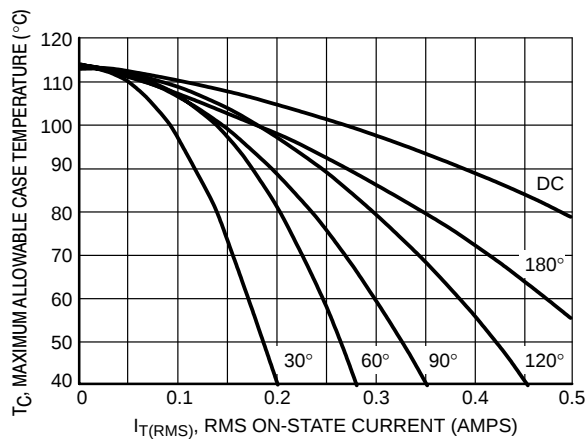


Figure 5. Typical RMS Current Derating

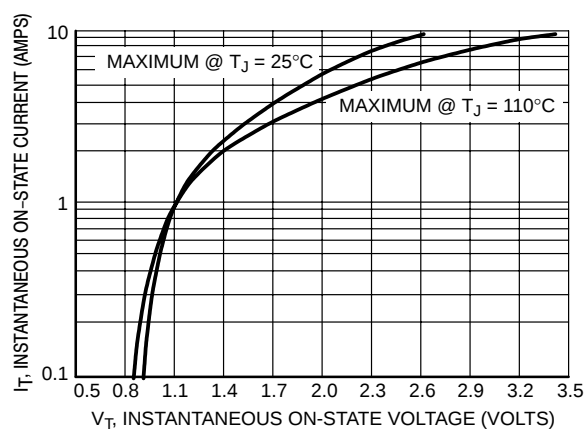


Figure 6. Typical On-State Characteristics