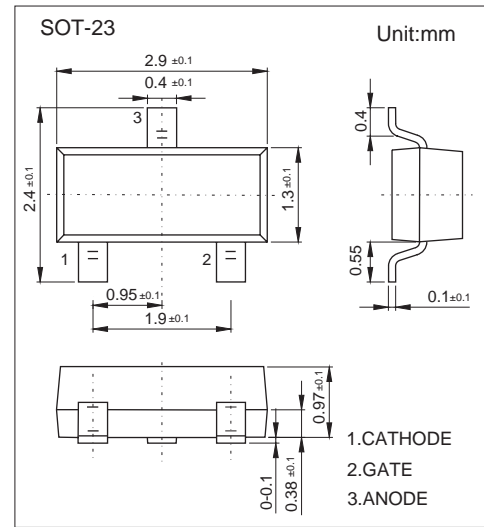
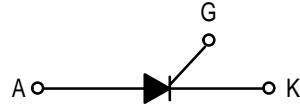


■ Features

- Blocking voltage to 400V
- RMS on-state current to 0.8 A
- General purpose switching



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Peak Repetitive Forward and Reverse Blocking Voltage ($T_J = 25$ to 125°C , $R_{\theta K} = 1 \text{ K } \Omega$)	V_{DRM} and V_{RRM}	400	V
Forward Current RMS	$I_{T(RMS)}$	0.8	A
Peak Forward Surge Current, $T_A = 25^\circ\text{C}$ (1/2 Cycle, Sine Wave, 60 Hz)	I_{TSM}	10	A
Circuit Fusing Considerations ($t = 8.3 \text{ ms}$)	I^2t	0.415	A^2s
Peak Gate Power — Forward, $T_A = 25^\circ\text{C}$	P_{GM}	0.1	W
Average Gate Power — Forward, $T_A = 25^\circ\text{C}$	$P_{GF(AV)}$	0.01	W
Peak Gate Current — Forward, $T_A = 25^\circ\text{C}$ (300 ms, 120 PPS)	I_{GFM}	1	A
Peak Gate Voltage — Reverse	V_{GRM}	5	V
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	200	$^\circ\text{C/W}$
Thermal Resistance, Junction to Case	$R_{\theta JC}$	75	$^\circ\text{C/W}$
Operating Junction Temperature Range @ Rated V_{RRM} and V_{DRM}	T_J	-40 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +150	$^\circ\text{C}$
Lead Solder Temperature (<1/16" from case, 10 s max)		230	$^\circ\text{C}$

■ Electrical Characteristics ($T_a = 25^\circ\text{C}$, $R_{GK} = 1 \text{ k } \Omega$ unless otherwise noted.)

Parameter	Symbol	Test conditions	Min	Max	Unit
Peak Forward or Reverse Blocking Current $T_c = 25^\circ\text{C}$ $T_c = 125^\circ\text{C}$	I_{DRM} , I_{RRM}	$V_{AK} = \text{Rated } V_{DRM} \text{ or } V_{RRM}$		10 100	μA
Forward "On" Voltage *1	V_{TM}	$I_{TM} = 1 \text{ A Peak @ } T_A = 25^\circ\text{C}$		1.7	V
Gate Trigger Current (Continuous DC) *2 $T_c = 25^\circ\text{C}$	I_{GT}	Anode Voltage = 7 V, $R_L = 100 \Omega$		200	μA
Gate Trigger Voltage (Continuous DC) $T_c = 25^\circ\text{C}$ $T_c = -40^\circ\text{C}$ $T_c = 125^\circ\text{C}$	V_{GT}	Anode Voltage = 7V, $R_L = 100 \Omega$ Anode Voltage = Rated V_{DRM} , $R_L = 100 \Omega$	0.1	0.8 1.2	V
Holding Current $T_c = 25^\circ\text{C}$ $T_c = -40^\circ\text{C}$	I_H	Anode Voltage = 7V, initiating current = 20mA		5 10	mA

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

*2. R_{GK} current is not included in measurement.