

2N1595 - 2N1596 - 2N1597 - 2N1598 - 2N1599

SILICON THYRISTORS

Industrial-type, low-current silicon controlled rectifiers in a three-lead package ideal for printed-circuit applications

Current handling capability of 1.6 amperes at junction temperatures to 100° C. Compliance to RoHS.

MAXIMUM RATINGS (*)

T_J=100℃ unless otherwise noted

Symbol	Ratings	2N1595	2N1596	2N1597	2N1598	2N1599	Unit
V _{RSM(REP)}	Peak reverse blocking voltage (*)	50	100	200	300	400	V
I _{T(RMS)}	Forward Current RMS (all conduction angles)			1.6		1	Α
I _{TSM}	Peak Surge Current (One Cycle, 60Hz, T _J =-20 to+100℃)			15			Α
P _{GM}	Peak Gate Power – Forward			0.1			W
P _{G(AV)}	Average Gate Power - Forward			0.01			W
I _{GM}	Peak Gate Current – Forward			0.1			Α
V _{GFM}	Peak Gate Voltage - Forward			10			V
V _{GRM}	Peak Gate Voltage - Reverse			10			V
TJ	Operating Junction Temperature Range		-	·20 to +100	O		r
T _{STG}	Storage Temperature Range		-	·20 to +120)		



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ELECTRICAL CHARACTERISTICS

 T_J =25℃ unless otherwise noted, R _{GK}=1000Ω

Symbol	Ratings		2N1595	2N1596	2N1597	2N1598	2N1599	Unit	
V _{DRM}	Peak Forward Blocking Voltage *	Min :	50	100	200	300	400	V	
I _{RRM}	Peak Reverse Blocking Cu (Rated V _{DRM} , T _J =100℃)	irrent			Max 1			mA	
I _{DRM}	Peak Forward Blocking Cu (Rated V_{DRM} with gate oper T_J =100°C)				Max 1			mA	
I _{GT}	Gate Trigger Current Anode Voltage=7.0 Vdc, R	_L =12Ω		Тур	: 2.0, Max	: 10		mA	
V _{GT}	Gate Trigger Voltage Anode Voltage=7.0 Vdc, R	_L =12Ω		Тур	: 0.7, Max	: 3.0		V	
VGT	V_{DRM} = Rated, R_L =100 Ω , T_J =100 C				Min : 0.2			V	
I _H	Holding Current Anode Voltage=7.0 Vdc, gate open				Тур : 5.0			mA	
V _{TM}	Forward On Voltage I _T =1 Adc			Тур	: 1.1, Max	: 2.0		V	
t _{gt}	Turn-On Time (t _d +t _r) I _{GT} =10 mA, I _T =1 A				Typ : 0.8			μS	
tq	Turn-Off Time $I_T=1 \text{ A}, I_R=1 \text{ A}, dv/dt=20 \text{ V}, T_J=100^{\circ}$ $V_{DRM}=\text{Rated Voltage}$	/μs,			Тур : 10			μs	

^(*) V_{DRM} or V_{RSM} can be applied for all types on a continuous dc basis without incurring damage.

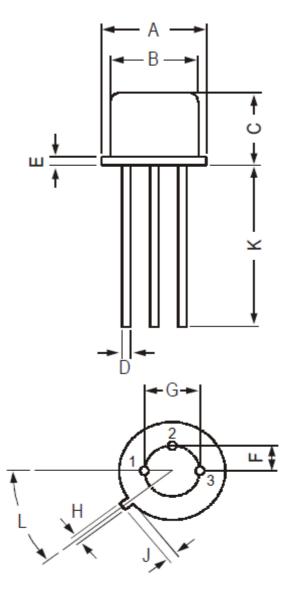


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MECHANICAL DATA CASE TO-39

DIMENSIONS (mm)				
	min	max		
А	8.50	9.39		
В	7.74	8.50		
С	6.09	6.60		
D	0.40	0.53		
E	-	0.88		
F	2.41	2.66		
G	4.82	5.33		
Н	0.71	0.86		
J	0.73	1.02		
K	12.70	-		
L	42°	48°		

kathode	Pin 1 :
Gate	Pin 2 :
Anode	Pin 3 :
anode	Case :



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