New Jersey Semi-Conductor Products, Inc.

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2N2322 thru 2N2326 (SILICON)



All-diffused PNPN thyristors designed for gating operation in mA/ μ A signal or detection circuits.

(TO-5)

MAXIMUM RATINGS*(T) = 125*C unless otherwise noted, Rgk = 1000 ohms)

Rating		Symbol	Value	Unit 🕚	
Peak Reverse Blocking Voltage (Note 1) 2N 2N 2N 2N 2N 2N 2N	2322 2323 2324 2325 2326	V _{RSM(rep)}	25 50 100 150 200	Volts	
Non-Repetitive Peak Reverse Blocking Vo (t < 5.0 ms) 2N 2N 2N 2N 2N 2N 2N	oltage 2322 2323 2324 2325 2326	V _{RSM(non-rep)}	40 75 150 225 300	Volts	
Forward Current RMS (All Conduction Angles)		^I T(RMS)	1.6	Amp	
Peak Surge Current (One-Half Cycle, 60 Hz) No Repetition Until Thermal Equilibrium is Restored		ITSM	15	Amp	
Peak Gate Power - Forward		P _{GM}	0.1	Watt	
Average Gate Power - Forward		PG(AV)	0.01	Watt	
Peak Gate Current - Forward		IGM	0.1	Amp	
Peak Gate Voltage - Forward		V _{GFM}	6.0	Volts	
Reverse		V _{GRM}	- 6.0		
Operating Junction Temperature Range		T _J ,	-65 to +125	°C	
Storage Temperature Range		Tstg	-65 to +150	°C	
Lead Solder Temperature (> 1/16" from case, 10 sec. max)		-	+230	°C	



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

ELECTRICAL CHARACTERISTICS (Tc = 25 °C unless otherwise noted, Ref = 1000 chms)

Characteristic	Symbol	Min	Max	Unit
Peak Forward Blocking Voltage (Note 1) 2N2322 2N2323 2N2324 2N2325 2N2326	V _{DRM}	25* 50* 100* 150* 200*	 - - -	Volts
Peak Reverse Blocking Current (Rated V _{DRM} , T _J = 125°C)	IRRM	-	100*	цA
Peak Forward Blocking Current (Rated V _{DRM} , T _J = 125°C)	IDRM	-	100*	µА
Forward "On" Voltage (I _T = 1.0 A Peak) (I _T = 3.14 A Peak, T _C = 85°C)	v _T	-	1.5 2.0*	Volts
Gate Trigger Current (Note 2) (Anode Voltage = 6.0 Vdc, R _L = 100 ohms) (Anode Voltage = 6.0 Vdc, R _L = 100 ohms, T _C = -65°C)	IGT	-	200 350*-	шA
Gate Trigger Voltage (Anode Voltage = 6.0 V, $R_L = 100$ ohms) (Anode Voltage = 6.0 V, $R_L = 100$ ohms, $T_C = -65^{\circ}C$) (V _{DRM} = Rated, $R_L = 100$ ohms, $T_J = 125^{\circ}C$)	V _{GT}		0.8	Volts
Holding Current (Anode Voltage = 6.0 V) (Anode Voltage = 6.0 V, T _C = -65°C) (Anode Voltage = 6.0 V, T _C = 125°C)	IH	- - 0.15*	2.0.	mA .
Turn-On Time	tgt	Circuit dependent, consult manufacturer		
Turn-Off Time	tq			

• JEDEC Registered Values

Notes: 1. VASM and VDAM can be applied for all types on a continuous do basis without incurring damage. 2. RGK current is not included in measurement.

Thyristor devices shall not be tested with a constant current source for for-



ward or reverse blocking capability such that the voltage applied exceeds the rated blocking voltage.

Thyristor devices shall not have a positive bias applied to the gate concurrently with a negative potential applied to the anode.

