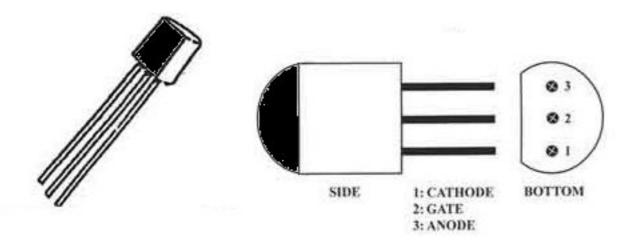
DIGITRON C203Y Silicon Controlled Rectifier - 0.8A RMS



MAXIMUM ALLOWABLE RATINGS

TYPE	REPETITIVE PEAK OFF-STATE VOLTAGE, VDRM(1) TC = -65°C to +125°C	REPETITIVE PEAK REVERSE VOLTAGE, VDRM(2) TC = -65°C to +125°C 30 Volts		
C203Y	30 Volts			
02001	30 Voits	30 Volts		

CHARACTERISTICS

TEST	SYMBOL	MIN,	TYP.	MAX.	UNITS	TEST CONDITIONS
Peak Roverse and Off State Current (All Types)	I _{RRM} or I _{DRM}	-	-	1,0	μA	T _C = +25°C, R _{GK} = 1000 ohms V _{RRM} = V _{DRM} = Rated Value,
		-	-	50		T _C = +125°C, R _{OK} = 1000 ohms V _{RRM} = V _{DRM} = Rated Value.
DC Gate Trigger Current	I _{GT}	-	-	200	μAdc	$T_C = +25^{\circ}C, V_D = 6Vdc,$ $R_L = 100 \text{ ohms.}$
		-	-	500		$T_C = .65^{\circ}C$, $V_D = 6Vdc$, $R_L = 100$ ohms.
DC Gate Trigger Voltage	V _{GT}	-	-	0,8	Vdc	$T_C = +25^{\circ}C, V_D = 6Vdc,$ $R_L = 100 \text{ ohms.}$
		-	-	1.0		$T_C = -65^{\circ}C, V_D = 6Vdc,$ $R_L = 100 \text{ ohms.}$
		0.1	-	-		$T_C = +125^{\circ}C$, Rated V_{DRM} , $R_L = 1000$ ohms.
Peak On-State Voltage	V _{TM}	-	-	1.5	V	T _C = +25°C, I _{TM} = 1.0A peak, 1 msec, wide pulse, Duty Cycle ≤ 2%
Holding Current	I _H	-	-	5.0	mAdo	Anode source voltage = 12Vdc, RGK = 1000 ohms. Tc = +25°C.
		-	-	10,0		T _C = -65°C
Critical Rate-of-Rise- of Off-State Voltage	dv/dL	-	20	-	V/µsec	T _C = +125°C, Rated V _{DRM} , R _{GK} = 1000 ohms.
Circuit Commutated Turn-Off Time	tq	1	15	-	изес	T _C = +125°C, rectangular current waveform. Rate-of-rise of current <10A/μsec. Rate reversal of current <5A/μsec. I _{TM} = 1A (50 μsec. pulse). Rep. Rate = 60 pps. V _{RRM} = Rated, V _{RX} = 15V Min., V _{DRM} = Rated. Rate-of-rise of reapplied off-state voltage = 20V/μsec.; Gate Bias = 0 Volts, 100 Ohms (during turn-off time interval).
Steady-State Thermal Resistance	Resc	-	-	125	°C/W	Junction-to-case (flat side of case is temperature reference point).
	ROJA	-	-	230		Junction-to-ambient (free convection).