

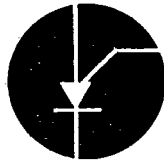
6367255 MOTOROLA SC (DIODES/OPTO)

34C 38156 D

7-25-09

SILICON THYRISTOR DIE (continued)

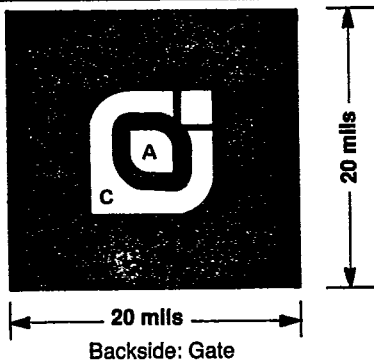
DIE NO. 2C6027
LINE SOURCE — DTL83



PUT — Programmable UJT

Device assembled from this die type are similar to the following device types:

- 2N6027
- 2N6028
- MPU6027
- MPU6028



METALLIZATION —

Top Al

Back Au

GOLD THICKNESS 3000 Å

DIE THICKNESS 6 ± 2

BONDING PAD SIZE —

Anode 4.0x4.0 mils

Cathode 3.0x3.0 mils

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ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$, Note 1)

Parameter	Test Conditions	Min	Max	Unit
V_T	$V_S = 10 \text{ Vdc}$, $R_G = 10 \text{ k}\Omega$	0.2	0.6	Volts
I_V	$V_S = 10 \text{ Vdc}$, $R_G = 10 \text{ k}\Omega$	70	—	μAdc
I_{GAO}	$V_S = 40 \text{ Vdc}$, cathode open	—	10	nAdc
V_F	$I_E = 50 \text{ mAdc}$ peak	—	1.5	Volts

- NOTES: 1. Because of the limitations of probe testing, only dc parameters are tested. These parameters must be measured using pulse techniques: pulse width $\leq 300 \mu\text{s}$, duty cycle $\leq 2\%$.
2. Detailed device characteristics are available from your Motorola sales representative.