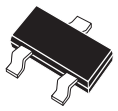
CMPP6027
CMPP6028

SURFACE MOUNT
PROGRAMMABLE UNIJUNCTION
SILICON TRANSISTOR



SOT-23 CASE

Central™
Semiconductor Corp.

DESCRIPTION:
The Central Semiconductor CMPP6027, CMPP6028 types are Silicon Programmable Unijunction Transistors, manufactured in a surface mount SOT-23 package, designed for adjustable (programmable) characteristics such as, Valley Current (I_V), Peak Current (I_P), and Intrinsic Standoff Ratio (η).

MARKING CODE: CMPP6027 - P27
CMPP6028 - P28

NOTE: Reverse Lead Codes Available, Add "R" to the end of the Part #.

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Gate-Cathode Forward Voltage	V_{GKF}	40	V
Gate-Cathode Reverse Voltage	V_{GKR}	5.0	V
Gate-Anode Reverse Voltage	V_{GAR}	40	V
Anode-Cathode Voltage	V_{AK}	40	V
Peak Non-Repetitive Forward Current (t=10μs)	I_{TSM}	5.0	A
Peak Repetitive Forward Current (t=20μs, D.C.=1.0%)	I_{TRM}	2.0	A
Peak Repetitive Forward Current (t=100μs, D.C.=1.0%)	I_{TRM}	1.0	A
DC Forward Anode Current	I_T	150	mA
DC Gate Current	I_G	50	mA
Power Dissipation	P_D	350	mW
Storage Temperature	T_{stg}	-55 to +150	°C
Operating Junction Temperature	T_J	-50 to +100	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

		CMPP6027		CMPP6028		
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**MIN**	**MAX**	**UNITS**
I_{GAO}	V_S=40V		10		10	nA
I_{GKS}	V_S=40V		50		50	nA
I_P	V_S=10V, R_G=1.0MΩ		2.0		0.15	μA
I_P	V_S=10V, R_G=10kΩ		5.0		1.0	μA
I_V	V_S=10V, R_G=1.0MΩ		50		25	μA
I_V	V_S=10V, R_G=10kΩ	70		25		μA
I_V	V_S=10V, R_G=200Ω	1.5		1.0		mA
V_T	V_S=10V, R_G=1.0MΩ	0.2	1.6	0.2	0.6	V
V_T	V_S=10V, R_G=10kΩ	0.2	0.6	0.2	0.6	V
V_F	I_F=50mA		1.5		1.5	V
V_O	V_B=20V, C_C=0.2μF	6.0		6.0		V
t_r	V_B=20V, C_C=0.2μF		80		80	ns

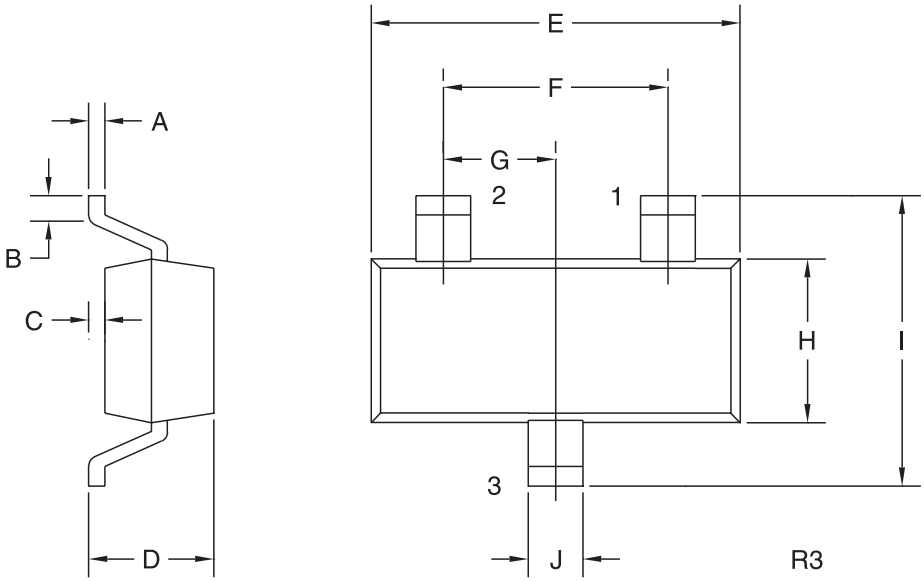
R1 (29-April 2005)

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CMPP6027
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SURFACE MOUNT
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SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:

STANDARD	***REVERSE**
1) CATHODE	1) ANODE
2) ANODE	2) CATHODE
3) GATE	3) GATE

MARKING CODE:
CMPP6027 - P27
CMPP6028 - P28

* Reverse Lead Code Available,
Add “R” to the end of the Part #.

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

R1 (29-April 2005)