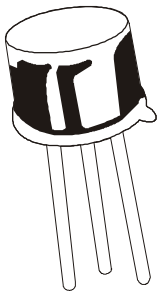
NPN/PNP SILICON PLANAR TRANSISTORS

CL100S NPN
CK100S PNP
TO-39



ABSOLUTE MAXIMUM RATINGS

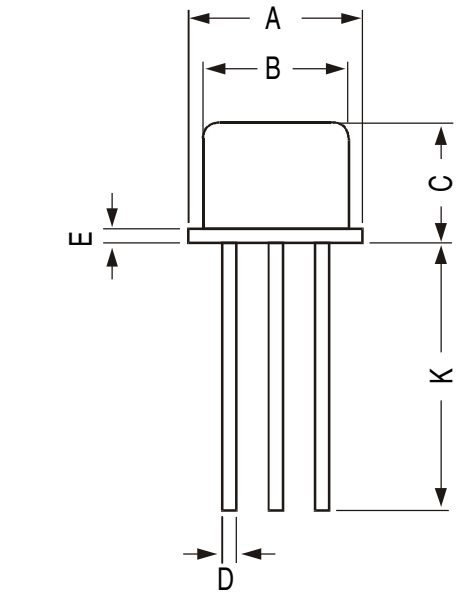
DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Emitter Voltage	VCEO	50	V
Collector -Base Voltage	VCBO	60	V
Emitter Base Voltage	VEBO	5.0	V
Collector Current	ICM	1.0	A
Power Dissipation @ Ta=25 deg C	PD	800	mW
Derate Above 25 deg C		5.33	mW/deg C
Power Dissipation @ Tc=25 deg C	PD	3.0	W
Derate Above 25 deg C		20	mW/deg C
Operating & Storage Junction Temperature Range	Tj, Tstg	-55 to +175	deg C

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector -Emitter Voltage	VCEO	IC=1mA, IB=0	50	-		V
Collector -Base Voltage	VCBO	IC=100uA, IE=0	60	-	-	V
Emitter Base Voltage	VEBO	IE=100uA, IC=0	5.0			V
Collector Cut off Current	ICBO	VCB=40V, IE=0	-	-	1.0	uA
Emitter Cut off Current	IEBO	VEB=5V, IC=0	-		1.0	uA
DC Current Gain	hFE*	2mA, VCE=5V	20	-	-	
Collector -Emitter (sat) Voltage	VCE(sat)*	IC=150mA, IB=15mA	-		0.60	V

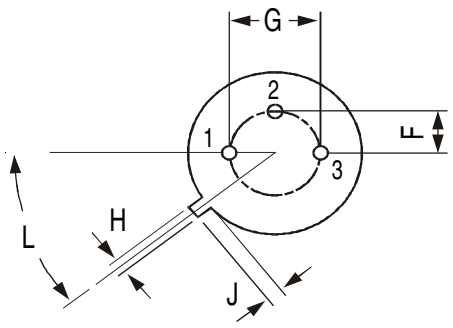
***Pulse Condition : Pulse Width =300us, Duty Cycle=2%**

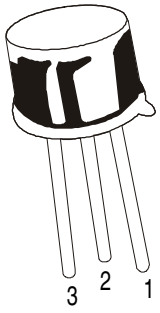
TO-39 Metal Can Package



All dimensions are in mm

DIM	MIN	MAX
A	8.50	9.39
B	7.74	8.50
C	6.09	6.60
D	0.40	0.53
E	—	0.88
F	2.41	2.66
G	4.82	5.33
H	0.71	0.86
J	0.73	1.02
K	12.70	—
L	42 DEG	48 DEG





PIN CONFIGURATION
1. EMITTER
2. BASE
3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-39	500 pcs/polybag	540 gm/500 pcs	3" x 7.5" x 7.5"	20.0K	17" x 15" x 13.5"	32.0K	40 kgs

Disclaimer

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