PNP SILICON PLANAR POWER TRANSISTORS

MJ2955



TO-3 Metal Can Package RoHS Compliant

Applications : General Purpose switching and amplifier.

ABSOLUTE MAXIMUM RATING (AT TA=25°C

DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Base Voltage	V _{CBO}	100	V
Collector Emitter Voltage	V _{CEO}	60	V
Collector Emitter Voltage(R _{BE} =100 III)	V _{CER}	70	V
Emitter Base Voltage	V _{EBO}	7	V
Collector Current Continuous	lc	15	A
Base Current	IB	7	A
Power Dissipation @ T _c =25°C	P _{tot}	115	W
Derate Above 25°C		0.657	W/ºC
Operating and Storage Junction	T _j , T _{stg}	- 65 to +200	°C
Temperature Range			

THERMAL RESISTANCE

Junction to Case $R_{th(j-c)}$ 1.52 °C/W	Junction to Case	R _{th(j-c)}	1.52	°C/W
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ELECTRICAL CHARACTERISTICS (T =25°C unless specified otherwise)

DESCRIPTION	SYMBOL	SYMBOL TEST CONDITION		MAX	UNITS
Collector Emitter Sustaing Voltage	V _{CEO(sus)} *	I _C =200mA, I _B =0	60		V
Collector Emitter Sustaing Voltage	V _{CER(sus)} *	I _C =200mA, R _{BE} =100W	70		V
Collector Cut off Current	I _{CEX}	V _{CE} =100V, V _{BE} =(off)=1.5V		1.0	mA
		T =150°C			
		V _{CE} =100V [°] , V _{BE} =(off)=1.5V		5.0	
Collector Cut off Current		V _{CE} =30V, I _B =0		0.7	mA
mitter Cut off Current I _{EBO}		V _{BE} =7V, I _C =0		5.0	mA
Collector Emitter Saturation Voltage	V _{CE(Sat)} *	I _C =4A, I _B =400mA		1.1	V
		I _C =10A, I _B =3.3A		3.0	
Base Emitter on Voltage	V _{BE(on)} *	I _C =4A, V _{CE} =4V		1.5	V
DC Current Gain	h_*	I _C =4A, V _{CE} =4V	20	80	
	FE	I_=10A, V _{CE} =4V	5		1

SILICON PLANAR POWER TRANSISTOR

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ELECTRICAL CHARACTERISTICS (T_c=25°C unless specified otherwise)

Second Breakdown

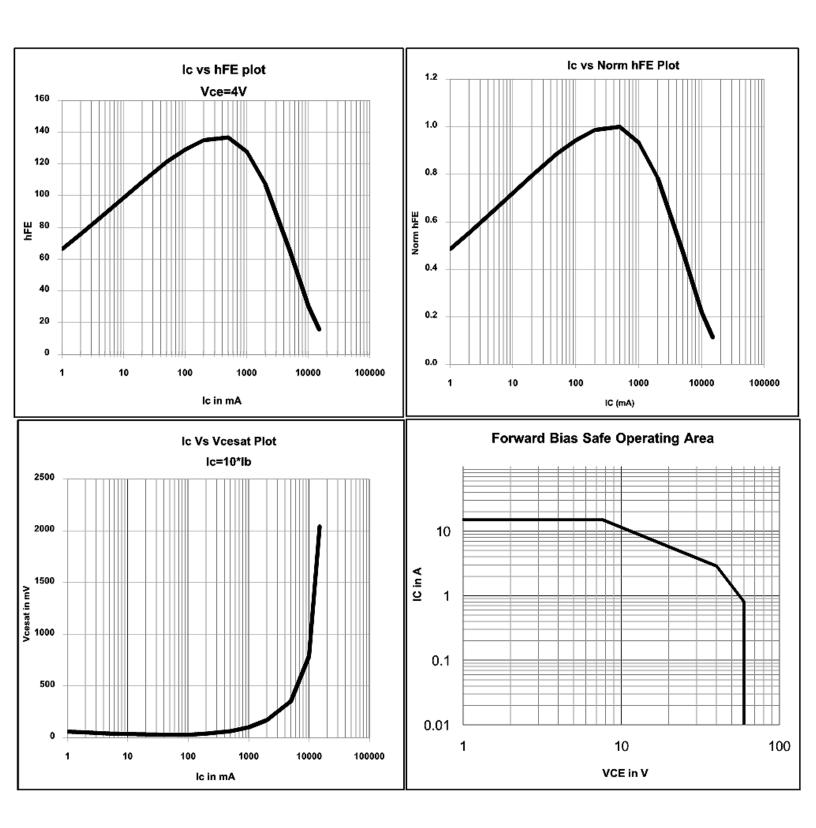
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
Second Breakdown Collector Current	I /b	V _{CE} =40V,t=1.0 s,Nonrepetitive	2.87		A
with Base Forward Biased	S				

Dynamic Characteristics

Current Gain - Bandwidth Product	fr	I _C =0.5A, V _{CE} =10V, f=1MHz	2.5		MHz
Small Signal Current Gain	h _{fe}	I _C =1A, V _{CE} =4V, f=1KHz	15	120	A.
Small Signal Current Gain Cutoff	fh	I_=1A, V _{CE} =4V, f=1KHz	10	0	KHz
Frequency	fe	С			

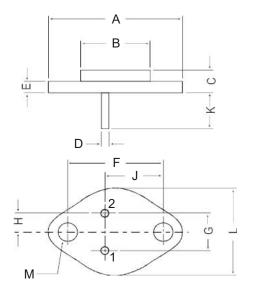
*Pulse Test: Pulse Width <300us, Duty Cycle <2%

CHARACTERISTICS PLOTS



MJ2955 Rev 1 01042014E

TO-3 Metal Can Package



	DIM	MIN.	MAX.
	А		39.37
	В		22.22
	С	6.35	8.50
	D	0.96	1.09
	Е		1.77
	F	29.90	30.40
mu	G	10.69	11.18
C	Н	5.20	5.72
ons	J	16.64	17.15
ensi	K	11.15	12.25
dimensions in mm.	L		26.67
Allo	<u>M</u>	<u>3.84</u>	<u>4.19</u>



PIN CONFIGURATION 1. BASE 2. EXILLERTOR

Packing Detail

PACKAGE	STAND	ARD PACK	INNER CARTON BOX		OUTERCARTONBOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	GrWt
TO-3	100 pcs/pkt	1.3 kg/100 pcs	12.5" x 8" x 1.8"	0.1K	17" x 11.5" x 21"	2K	27.5 kgs

Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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