PNP Plastic-Encapsulate Transistors

General Purpose Amplifier

Low Speed Switching Applications

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Absolute Maximum Rating

Parameter	Symbol	Value	Unit
Collector-Base Voltage	BV_{CBO}	-100	V
Collector-Emitter Voltage	BV_{CEO}	-100	V
Emitter-Base Voltage	BV_{EBO}	-5	V
Collector Current	I_C	-6	A
Collector Current Pulse	I_{CP}	-10	A
Collector Power Dissipation	P_C	1.75	W
		20	
Junction Temperature	Tj	150	
Storage Temperature	Tstg	-55 150	

Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	BV_{CBO}	I_C = -100 I_E = 0	-100			V
Collector-emitter breakdown voltage	BV_{CEO}	I_C = -1mA I_B = 0	-100			V
Emitter-base breakdown voltage	BV_{EBO}	I_E = -100 I_C = 0	-5			V
Collector cut-off current	I_{CEO}	V_{CB} = -60V I_B = 0			-50	
Collector cut-off current	I_{CES}	V_{CE} = -100V V_{BE} = 0			-10	
Emitter cut-off current	I_{EBO}	V_{EB}				

Typical Characteristics

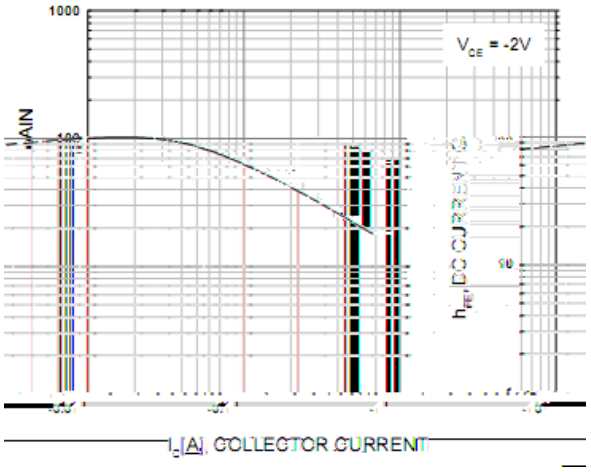


Figure 1. DC current Gain



Figure 2. . Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

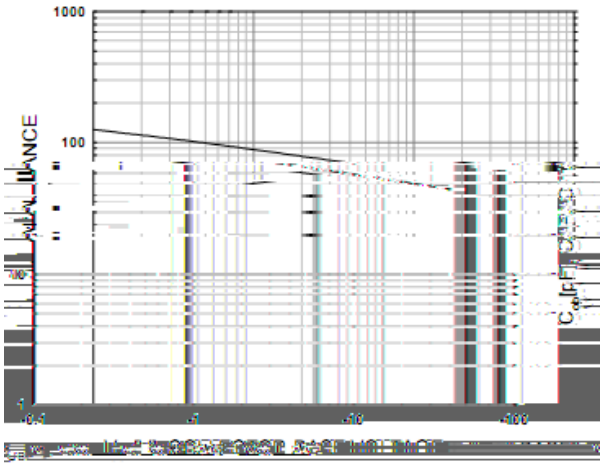


Figure 3 Collector Output Capacitance

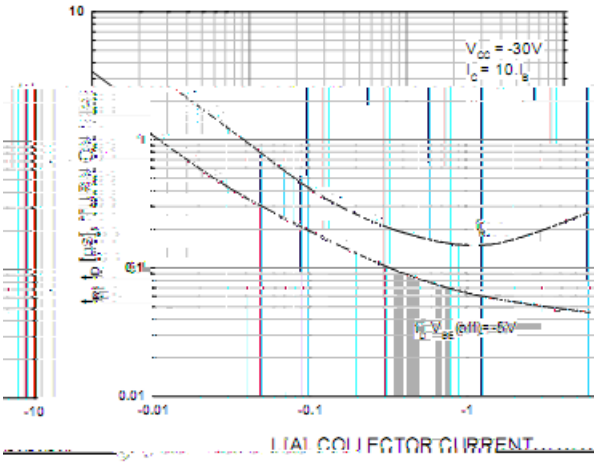


Figure 4. Turn On Time

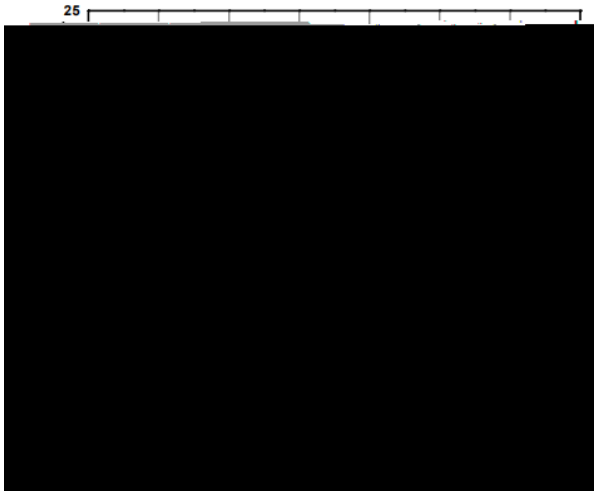


Figure 5. Power Derating

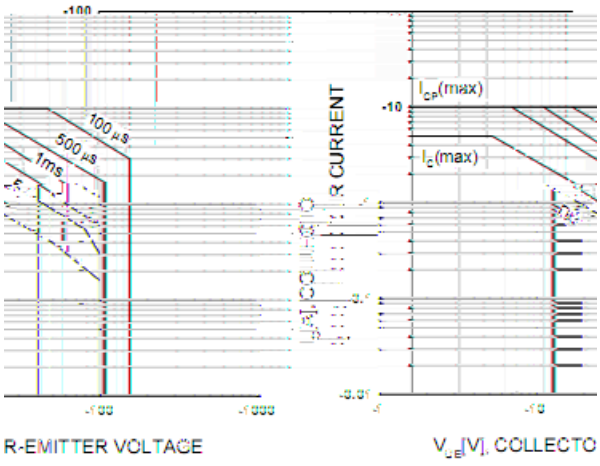
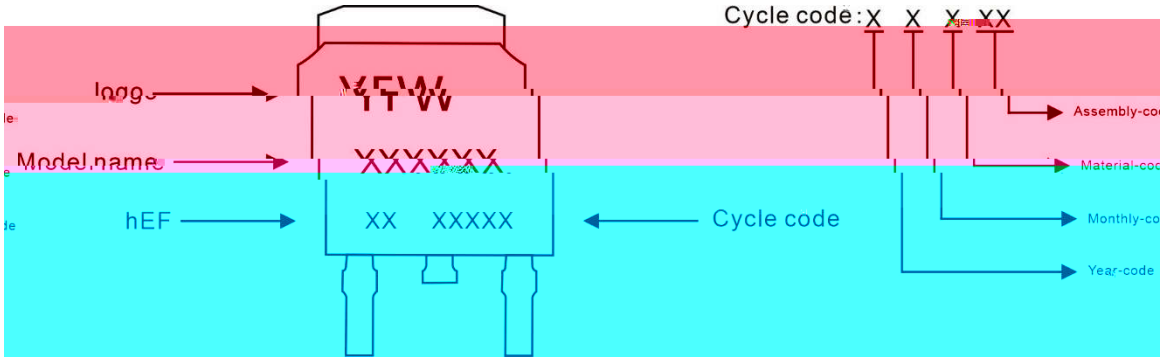


Figure 6 Safe Operating Area

Marking Diagram

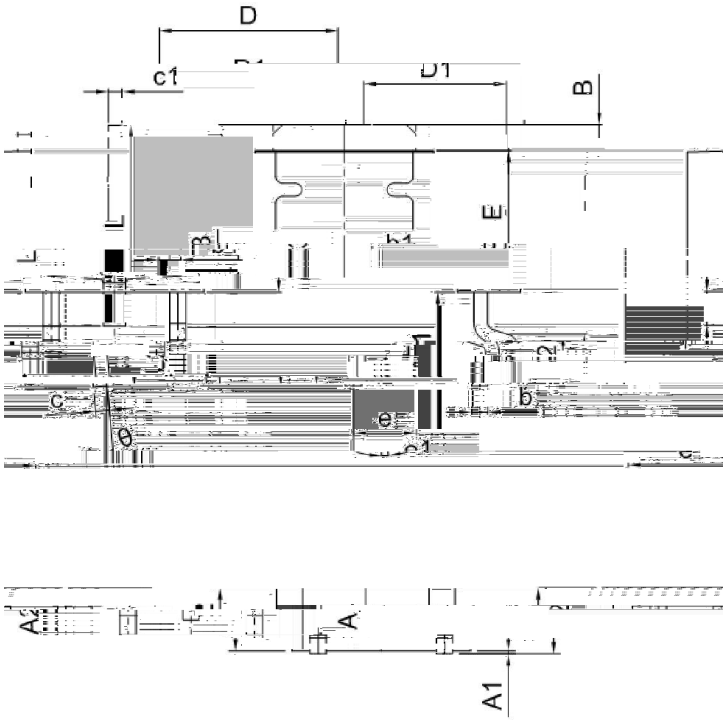


Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MJD42C	TO-252	0.011oz(0.32g)	2500pcs/reel	5000pcs/box 25000pcs/Carton

Package Dimensions

TO-252



Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.50	0.087	0.098
A1	0.00	0.12	0.000	0.005
A2	2.20	2.40	0.087	0.094
B	1.20	1.60	0.047	0.063
b	0.50	0.70	0.020	0.028
b1	0.70	0.90	0.028	0.035
c	0.40	0.60	0.016	0.024
c1	0.40	0.60	0.016	0.024
D	6.35	6.65	0.250	0.262
D1	5.20	5.40	0.205	0.213
E	5.40	5.70	0.213	0.224
e	2.20	2.40	0.087	0.094
e1	4.40	4.80	0.173	0.189
L	10.00	11.00	0.393	0.433
L1	2.70	3.10	0.106	0.122
L2	1.40	1.80	0.055	0.071
L3	0.90	1.50	0.035	0.059

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