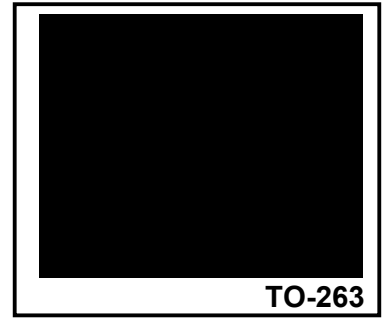


NPN Plastic-Encapsulate Transistors

Medium Power Linear Switching Applications
†Complementary to TIP42C



Absolute Maximum Ratings (Ta = 25 °C)

Parameter	Symbol	Value	Unit
$I_{C,DC}$ (Continuous Collector Current)	$I_{C,DC}$	4A	A
$I_{C,PK}$ (Peak Collector Current)	$I_{C,PK}$	4A	A
$I_{E,DC}$ (Continuous Emitter Current)	$I_{E,DC}$	7A	A
$I_{S,DC}$ (Continuous Secondary Current)	$I_{S,DC}$	1A	A
$I_{S,PK}$ (Peak Secondary Current)	$I_{S,PK}$ (Ta = 25°C)	1.7A	A
	$I_{S,PK}$ (Ta = 175°C)	1.7A	A
$T_{j,C}$ (Case Temperature)	R	74°C	°C
$T_{j,S}$ (Secondary Temperature)	$T_{j,S}$	175~74°C	°C

Electrical Characteristics (Ta = 25 °C)

Parameter	Symbol	Conditions	Min	Typ	Unit
$I_{C,DC}$ (Continuous Collector Current)	$I_{C,DC}$	$V_{CE} > 4V, I_{B,DC} > 4mA$	4A		A
$I_{C,PK}$ (Peak Collector Current)	$I_{C,PK}$	$V_{CE} > 4V, I_{B,DC} > 4mA$	4A		A
$I_{E,DC}$ (Continuous Emitter Current)	$I_{E,DC}$	$V_{CE} > 4V, I_{B,DC} > 4mA$	7A		A
$I_{S,DC}$ (Continuous Secondary Current)	$I_{S,DC}$	$V_{CE} > 4V, I_{B,DC} > 4mA$			< 9A
$I_{S,PK}$ (Peak Secondary Current)	$I_{S,PK}$	$V_{CE} > 4V, I_{B,DC} > 4mA$			< 9A
$I_{S,DC}$ (Continuous Secondary Current)	$I_{S,DC}$	$V_{CE} > 4V, I_{B,DC} > 4mA$			< 9A
f_{T} (Transition Frequency)	f_{T}	$V_{CE} > 4V, I_{C,DC} > 19mA$	119MHz		
	f_{T}	$V_{CE} > 4V, I_{C,DC} > 19mA$	7MHz		
$f_{T,PK}$ (Peak Transition Frequency)	$f_{T,PK}$	$V_{CE} > 4V, I_{B,DC} > 4mA$			A
$E_{D,PK}$ (Peak Power Dissipation)	$E_{D,PK}$	$V_{CE} > 4V, I_{C,DC} > 19mA$			A
F (Frequency)	F	$V_{CE} > 4V, I_{C,DC} > 74mA, I_{B,DC} > 9mA$	11A		I JK

H (Z)) ! " L MN 402G (" S S NFP

Typical Characteristics

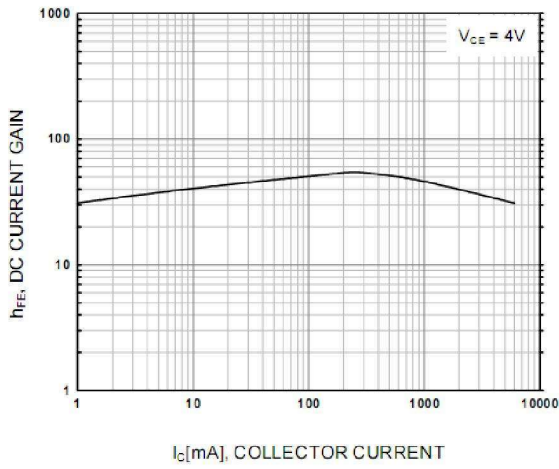


Figure 1. DC current Gain

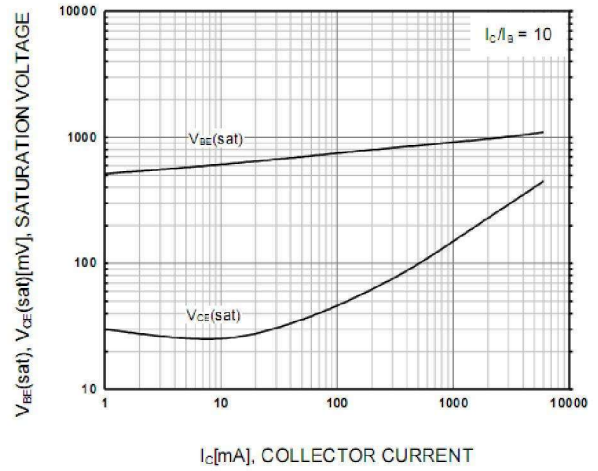


Figure 2. Base-Emitter Saturation Voltage and Collector-Emitter Saturation Voltage n

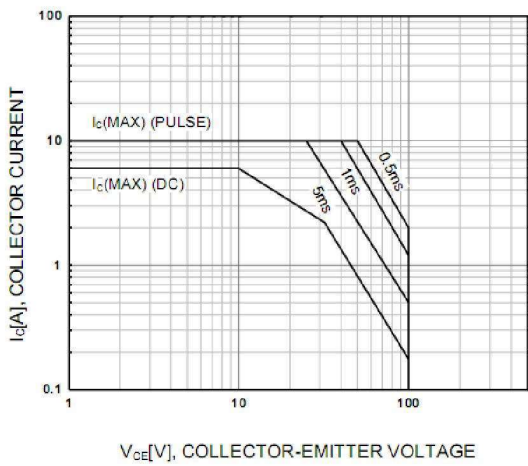


Figure 3. Safe Operating Area

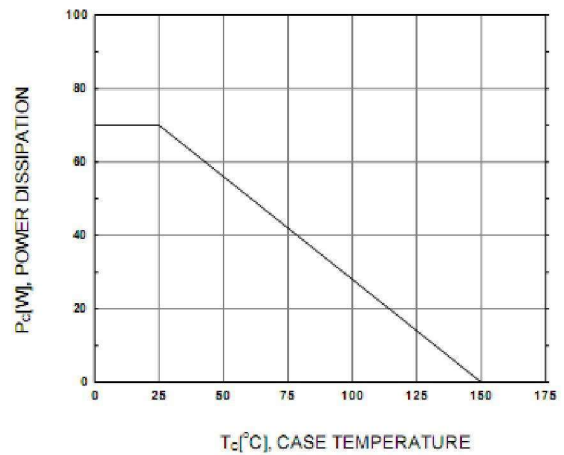
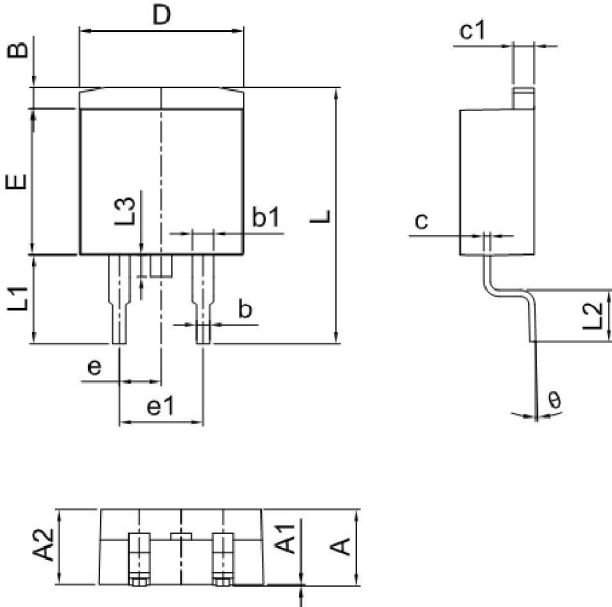


Figure 4. Power Derating

Package Dimensions

TO-263



Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.30	4.70	0.169	0.185
A1	0.00	0.15	0.000	0.006
A2	4.30	4.55	0.169	0.179
B	1.10	1.50	0.043	0.059
b	0.70	0.90	0.028	0.035
b1	1.20	1.50	0.047	0.059
c	0.30	0.60	0.012	0.024
c1	1.17	1.37	0.046	0.054
D	9.90	10.20	0.390	0.402
E	8.50	8.90	0.335	0.350
e	2.44	2.64	0.096	0.104
e1	4.88	5.28	0.192	0.208
L	15.00	15.30	0.591	0.602
L1	5.20	5.40	0.205	0.213
L2	2.40	2.60	0.094	0.102
L3	1.60	1.80	0.063	0.071

Product Specification Classification

Part Number	Package	Marking	Pack
TIP41C	TO-263	YFU TIP41C XXXXX	800PCS/Reel

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)