

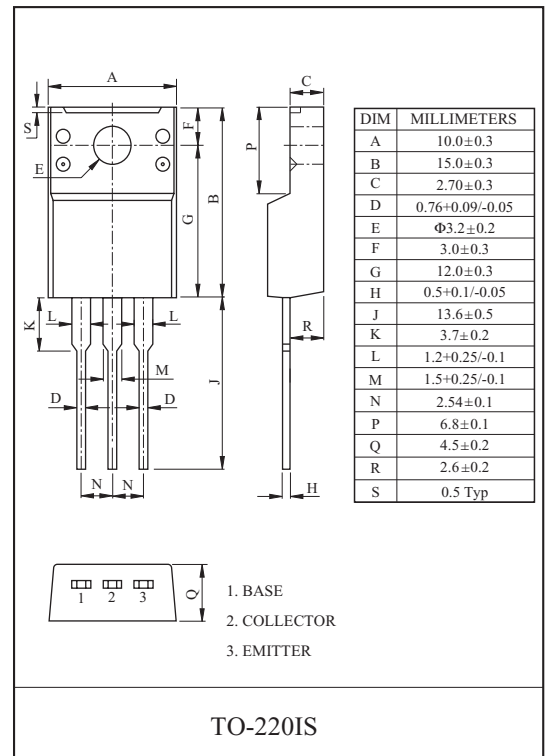
GENERAL PURPOSE APPLICATION.

### FEATURES

- Complementary to TIP42CF.
- Suffix U : Qualified to AEC-Q101.  
ex) TIP41CF-Y-U/PU

### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CBO}$	100	V
Collector-Emitter Voltage		$V_{CEO}$	100	V
Emitter-Base Voltage		$V_{EBO}$	5	V
Collector Current	DC	$I_C$	6	A
	Pulse	$I_{CP}$	10	
Base Current		$I_B$	2	A
Collector Power Dissipation	Ta=25	$P_C$	2	W
	Tc=25		25	W
Junction Temperature		$T_j$	150	
Storage Temperature Range		$T_{stg}$	-55 150	



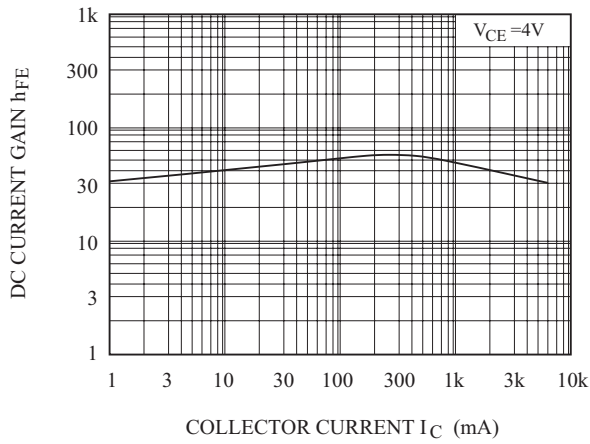
### ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Emitter Sustaining Voltage	$V_{CEO(SUS)}$	$I_C=30mA, I_B=0$	100	-	-	V
Collector Cut-off Current	$I_{CEO}$	$V_{CE}=60V, I_B=0$	-	-	0.7	mA
Collector Cut-off Current	$I_{CES}$	$V_{CE}=100V, V_{EB}=0$	-	-	400	μA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	1	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=4V, I_C=0.3A$	30	-	-	
	$h_{FE(2)}$ (Note)	$V_{CE}=4V, I_C=3A$	15	-	75	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=6A, I_B=600mA$	-	-	1.5	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=4V, I_C=6A$	-	-	2.0	V
Transition Frequency	$f_T$	$V_{CE}=10V, I_C=500mA$	3.0	-	-	MHz

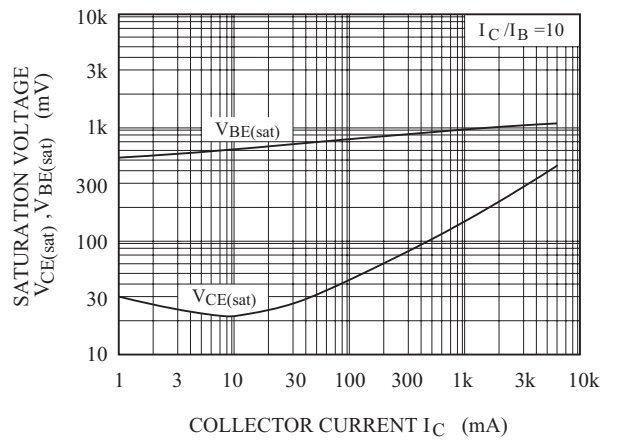
Note :  $h_{FE(2)}$  Classification Y:45~75

# TIP41CF

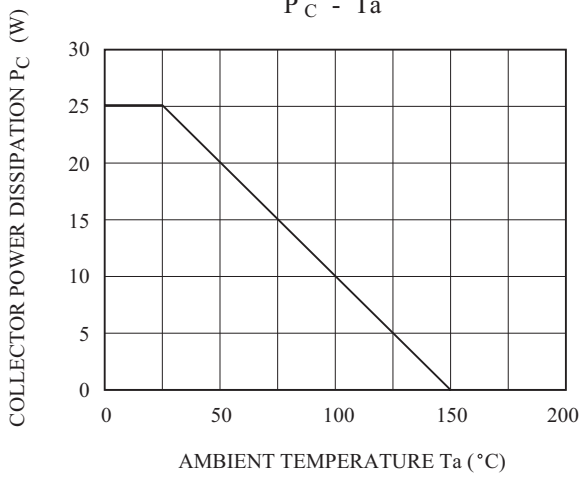
$h_{FE} - I_C$



$V_{CE(sat)}, V_{BE(sat)} - I_C$



$P_C - T_a$



SAFE OPERATING AREA

