

HIGH VOLTAGE APPLICATION.  
TELEPHONE APPLICATION.

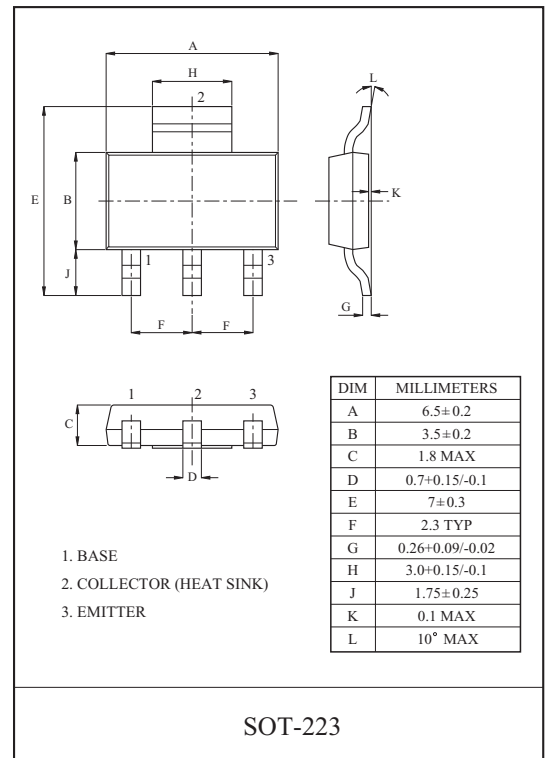
#### FEATURES

- Complementary to PZTA92.

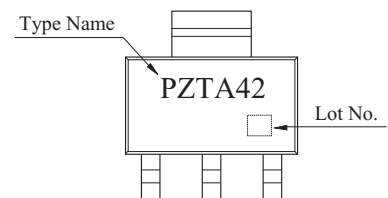
#### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	300	V
Collector-Emitter Voltage	$V_{CEO}$	300	V
Emitter-Base Voltage	$V_{EBO}$	5.0	V
Collector Current	$I_C$	500	mA
Emitter Current	$I_E$	-500	mA
Collector Power Dissipation	$P_C$ *	1	W
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 ~ 150	°C

\* Package Mounted On FR-4 PCB 36 × 18 × 1.5mm. :  
mountina pad for the collector lead min.6cm<sup>2</sup>



#### Marking



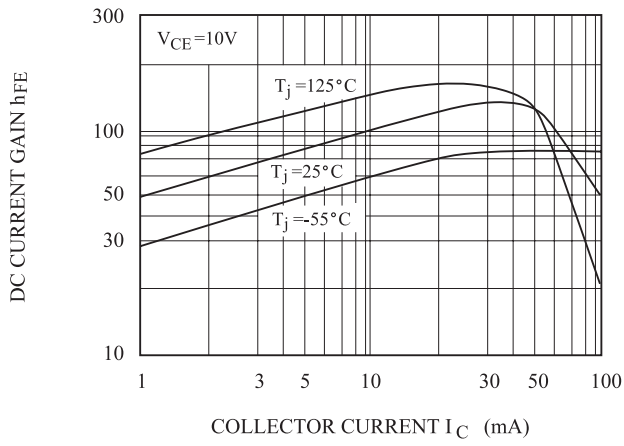
#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	300	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BE)CEO}$	$I_C=1.0mA, I_B=0$	300	-	-	V
DC Current Gain	* $h_{FE}$	$I_C=1.0mA, V_{CE}=10V$	40	-	-	
		$I_C=10mA, V_{CE}=10V$	40	-	-	
		$I_C=30mA, V_{CE}=10V$	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA, I_B=2.0mA$	-	-	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20mA, I_B=2.0mA$	-	-	0.9	V
Transition Frequency	$f_T$	$V_{CE}=20V, I_C=10mA, f=100MHz$	50	-	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=20V, I_E=0, f=1MHz$	-	-	3.0	pF

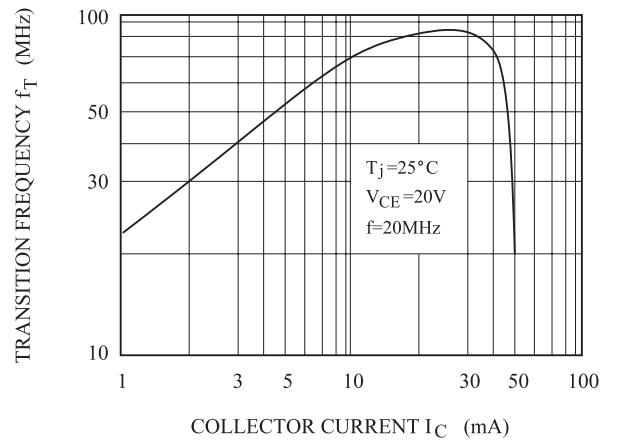
\*Pulse Test : Pulse Width ≤ 300 μs, Duty Cycle ≤ 2.0%

# PZTA42

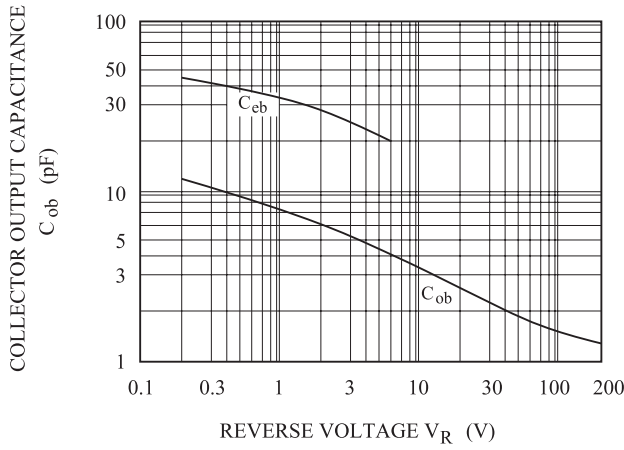
$h_{FE} - I_C$



$f_T - I_C$



$C_{ob} - V_R$



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

