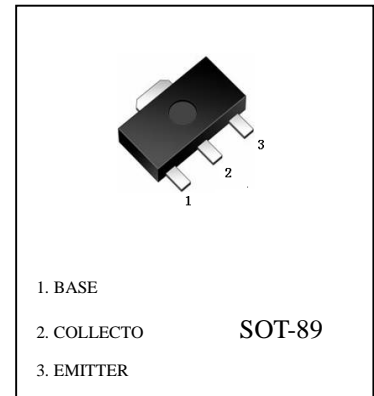


FEATURES

- Epitaxial planar die construction.
- Complementary NPN type available PXT2907A.
- Ideal for medium power amplification and switching.

PXT2222A(NPN)

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	75	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current -Continuous	I_C	600	mA
Collector Power Dissipation	P_C	500	mW
Storage Temperature	T_{stg}	-55-150	°C

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C=10\mu A, I_E=0$	75		V
Collector-emitter breakdown voltage	V_{CEO}	$I_C=10mA, I_B=0$	40		V
Emitter-base breakdown voltage	V_{EBO}	$I_E=10\mu A, I_C=0$	6		V
Collector cut-off current	I_{CBO}	$V_{CB}=60V, I_E=0$		0.01	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$		0.01	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=10V, I_C=0.1mA$	35		
	$h_{FE(2)}$	$V_{CE}=10V, I_C=1mA$	50		
	$h_{FE(3)}$	$V_{CE}=10V, I_C=10mA$	75		
	$h_{FE(4)}$	$V_{CE}=10V, I_C=150mA$	100	300	
	$h_{FE(5)}$	$V_{CE}=1V, I_C=150mA$	50		
	$h_{FE(6)}$	$V_{CE}=10V, I_C=500mA$	40		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$		1	V
	$V_{CE(sat)}$	$I_C=150mA, I_B=15mA$		0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=500mA, I_B=50mA$		2.0	V
	$V_{BE(sat)}$	$I_C=150mA, I_B=5mA$	0.6	1.2	V
Transition frequency	f_T	$V_{CE}=10V, I_C=20mA$ $f=100MHz$	300		MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		8	pF
Delay time	t_d	$V_{CC}=30V, I_C=150mA$ $V_{BE(off)}=0.5V, I_{B1}=15mA$		10	nS
Rise time	t_r			25	nS
Storage time	t_s	$V_{CC}=30V, I_C=150mA, I_{B1}=-I_{B2}=15mA$		225	nS
Fall time	t_f			60	nS

PXT2222A Typical Characteristics

