

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

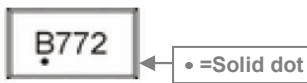
DESCRIPTION

- General Purpose Amplifier and Switch Application
- Low Voltage and Low Current

CLASSIFICATION OF h_{FE}

Product-Rank	PZT772J-Y
Range	160~320

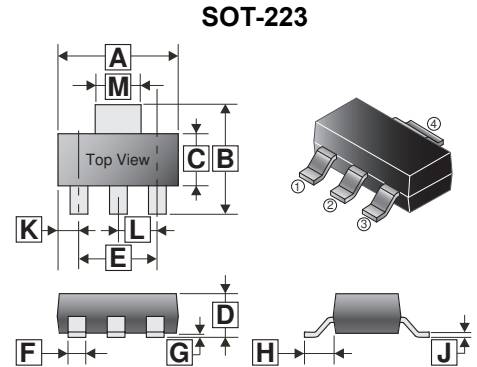
MARKING



*Solid dot=Green molding compound device, if none, the normal device.

PACKAGE INFORMATION

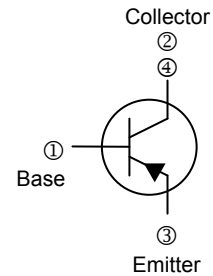
Package	MPQ	Leader Size
SOT-223	2.5K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	5.90	6.70	G	-	0.18
B	6.70	7.30	H	2.00 REF.	
C	3.30	3.80	J	0.20	0.40
D	1.40	1.90	K	1.10 REF.	
E	4.45	4.75	L	2.30 REF.	
F	0.60	0.85	M	2.80	3.20

ORDER INFORMATION

Part Number	Type
PZT772J-Y	Lead (Pb)-free
PZT772J-Y-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current -Continuous	I_C	-3	A
Collector Dissipation	P_C	1.25	W
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	100	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature	T_J, T_{STG}	150, -55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-40	-	-	V	$I_C = -100\mu\text{A}, I_E = 0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-30	-	-	V	$I_C = -10\text{mA}, I_B = 0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-6	-	-	V	$I_E = -100\mu\text{A}, I_C = 0$
Collector cut-off Current	I_{CB0}	-	-	-1	μA	$V_{CB} = -40\text{V}, I_E = 0$
	I_{CE0}	-	-	-10		$V_{CE} = -30\text{V}, I_B = 0$
Emitter cut-off current	I_{EB0}	-	-	-1	μA	$V_{EB} = -6\text{V}, I_C = 0$
DC Current Gain	h_{FE1}	160	-	320		$V_{CE} = -2\text{V}, I_C = -1\text{A}$
	h_{FE2}	32	-	-		$V_{CE} = -2\text{V}, I_C = -100\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.5	V	$I_C = -2\text{A}, I_B = -0.2\text{A}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	-1.5	V	$I_C = -2\text{A}, I_B = -0.2\text{A}$
Transition Frequency	f_T	-	50	-	MHZ	$V_{CE} = -5\text{V}, I_C = -0.1\text{A}, f = 10\text{MHz}$

CHARACTERISTIC CURVES

