# NPN small signal transistor

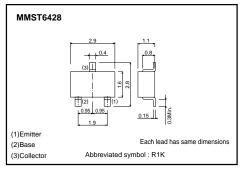
#### Features

1) Ideal for switching and AF amplifier applications.

### Packaging specifications

Туре	Package	Taping	
	Code	T146	
	Basic ordering unit (pieces)	3000	
MMST6428		0	

## •Dimensions (Unit : mm)



## •Absolute maximum ratings (Ta=25°C)

Parameter	Symbol Limits		Unit
Collector-base voltage	Vсво	60	V
Collector-emitter voltage	Vceo	50	V
Emitter-base voltage	Vebo	6	V
Collector current	lc	0.2	A
Collector power dissipation	Pc	0.2	W
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to 125	°C

## •Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVCEO	50	-	-	V	Ic= 1mA
Emitter-base breakdown voltage	ВУсво	60	-	-	V	Ic= 100μA
Collector-base cutoff current	Ісво	-	-	0.1	μΑ	VCB= 30V
Collector-emitter cutoff current	ICEO	I	-	0.1	μΑ	VCE= 30V
Emitter-base cutoff current	Іево	-	-	0.1	μΑ	Veb= 5V
Collector-emitter saturation voltage	VCE(sat)1	Ι	-	0.2	V	Ic/I <sub>B</sub> = 10mA/ 0.5mA
Conector-entiter saturation voltage	VCE(sat)2	-	-	0.6	V	Ic/I <sub>B</sub> = 100mA/ 5mA
Base-emitter voltage	VBE(on)	0.56	-	0.66	V	Vce= 5V, Ic= 1mA
	hfe	250	-	-		Vce= 5V, Ic= 0.01mA
DC current transfer ratio		250	-	-		Vce= 5V, Ic= 0.1mA
		250	-	650		Vce= 5V, Ic= 1mA
		250	-	-		Vce= 5V, Ic= 10mA
Transition frequency	fт	100	-	700	MHz	Vce= 5V, Ic= 1mA, f=100MHz
Collector output capacitance	Cob	-	-	3.0	pF	Vсв= 10V, IE= 0A, f=1MHz



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