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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NPN small signal transistor

MMST6428

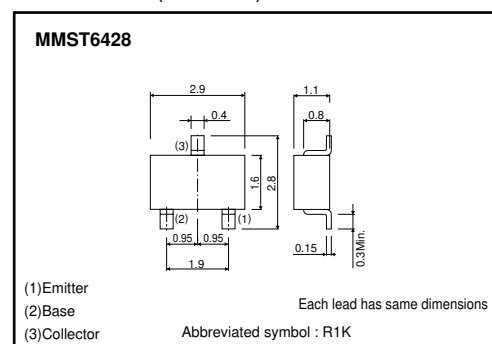
●Features

1) Ideal for switching and AF amplifier applications.

●Packaging specifications

Type	Package	Taping
	Code	T146
	Basic ordering unit (pieces)	3000
MMST6428		○

●Dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CB0}	60	V
Collector-emitter voltage	V_{CE0}	50	V
Emitter-base voltage	V_{EB0}	6	V
Collector current	I_C	0.2	A
Collector power dissipation	P_C	0.2	W
Junction temperature	T_J	125	°C
Storage temperature	T_{stg}	-55 to 125	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV_{CE0}	50	-	-	V	$I_C = 1\text{mA}$
Emitter-base breakdown voltage	BV_{CB0}	60	-	-	V	$I_C = 100\mu\text{A}$
Collector-base cutoff current	I_{CB0}	-	-	0.1	μA	$V_{CB} = 30\text{V}$
Collector-emitter cutoff current	I_{CE0}	-	-	0.1	μA	$V_{CE} = 30\text{V}$
Emitter-base cutoff current	I_{EB0}	-	-	0.1	μA	$V_{EB} = 5\text{V}$
Collector-emitter saturation voltage	$V_{CE(sat)1}$	-	-	0.2	V	$I_C/I_B = 10\text{mA}/0.5\text{mA}$
	$V_{CE(sat)2}$	-	-	0.6	V	$I_C/I_B = 100\text{mA}/5\text{mA}$
Base-emitter voltage	$V_{BE(on)}$	0.56	-	0.66	V	$V_{CE} = 5\text{V}, I_C = 1\text{mA}$
DC current transfer ratio	h_{FE}	250	-	-	-	$V_{CE} = 5\text{V}, I_C = 0.01\text{mA}$
		250	-	-	-	$V_{CE} = 5\text{V}, I_C = 0.1\text{mA}$
		250	-	650	-	$V_{CE} = 5\text{V}, I_C = 1\text{mA}$
		250	-	-	-	$V_{CE} = 5\text{V}, I_C = 10\text{mA}$
Transition frequency	f_T	100	-	700	MHz	$V_{CE} = 5\text{V}, I_C = 1\text{mA}, f = 100\text{MHz}$
Collector output capacitance	C_{ob}	-	-	3.0	pF	$V_{CB} = 10\text{V}, I_E = 0\text{A}, f = 1\text{MHz}$

Notes

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