

MMST6428

1) Ideal for switching and AF amplifier applications.

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

The drawing shows the MMST6428 package with the following dimensions:

- Top View:**
 - Overall width: 2.9 mm
 - Distance between leads (1) and (2): 1.9 mm
 - Lead width: 0.95 mm
 - Lead pitch: 0.95 mm
 - Lead (3) width: 0.4 mm
 - Lead (3) pitch: 0.4 mm
- Side View:**
 - Overall height: 2.8 mm
 - Lead height: 1.6 mm
 - Lead (1) width: 0.8 mm
 - Lead (2) width: 0.8 mm
 - Lead (3) width: 0.8 mm
- Detail View:**
 - Lead width: 0.15 mm
 - Lead height: 0.3 mm

Each lead has same dimensions

Abbreviated symbol : R1K

Parameter	Symbol	Limits	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BV_{CEO}	50	—	—	V	$I_C = 1\text{mA}$
Emitter-base breakdown voltage	BV_{CBO}	60	—	—	V	$I_C = 100\mu\text{A}$
Collector-base cutoff current	I_{CBO}	—	—	0.1	μA	$V_{CB} = 30\text{V}$
Collector-emitter cutoff current	I_{CEO}	—	—	0.1	μA	$V_{CE} = 30\text{V}$
Emitter-base cutoff current	I_{EBO}	—	—	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	$V_{CB} = 10\text{V}$, $I_E = 0\text{A}$, $f = 1\text{MHz}$

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