

## ■ MAXIMUM RATINGS 最大額定值

Characteristic 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Collector-Emitter Voltage 集電極-射極電壓	$V_{CEO}$	400	V
Collector-Base Voltage 集電極-極電壓	$V_{CBO}$	400	V
Emitter-Base Voltage 發射極-基極電壓	$V_{EBO}$	7	V
Collector Current 集電極電流	$I_C$	200	mA
Device Dissipation 耗散功率	$P_D$	225	mW
Junction and Storage Temperature 結溫和儲存溫度	$T_J, T_{stg}$	-55to+125	°C

## ■ ELECTRICAL CHARACTERISTICS 電特性

( $T_A=25^\circ\text{C}$  unless otherwise noted 如無特殊說明，溫度為  $25^\circ\text{C}$ )

Characteristic 特性參數	Symbol 符號	Min 最小值	Max 最大值	Unit 單位
Collector-Emitter Breakdown Voltage 集電極-射極擊穿電壓 ( $I_C=1\text{mA}, I_B=0$ )	$V_{(BR)CEO}$	400	—	V
Collector-Base Breakdown Voltage 集電極-基極擊穿電壓 ( $I_C=100\mu\text{A}, I_E=0$ )	$V_{(BR)CBO}$	400	—	V
Emitter-Base Breakdown Voltage 發射極-基極擊穿電壓 ( $I_E=100\mu\text{A}, I_C=0$ )	$V_{(BR)EBO}$	7	—	V
Collector Cutoff Current 集電極截止電流 ( $V_{CB}=300V, I_E=0$ )	$I_{CBO}$	—	500	nA
DC Current Gain 直流電流增益 ( $I_C=10\text{mA}, V_{CE}=10.0\text{V}$ )	$H_{FE}$	40	300	—
Collector-Emitter Saturation Voltage 集電極-發射極飽和壓降 ( $I_C=100\text{mA}, I_B=10\text{mA}$ )	$V_{CE(sat)}$	—	0.5	V
Current-Gain-Bandwidth Product 電流增益帶寬乘積 ( $I_C=10\text{mA}, V_{CE}=20\text{V}, f=30\text{MHz}$ )	$f_T$	50	—	MHz

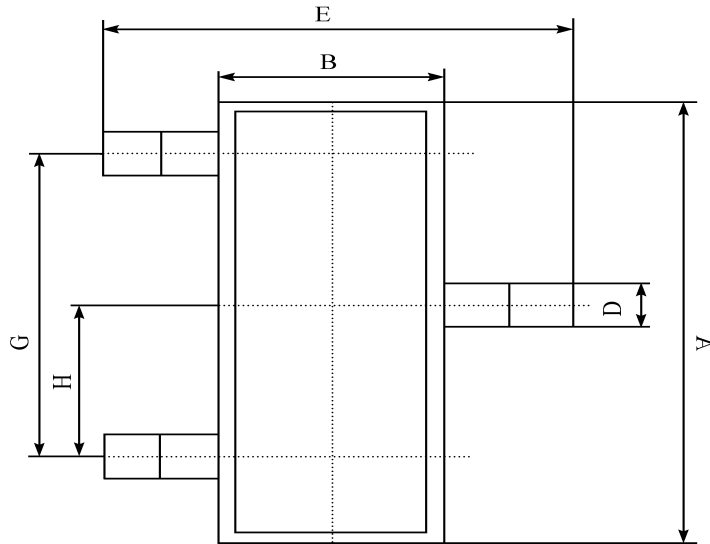
## ■ DEVICE MARKING 打標

MMBTA44 = 3 D

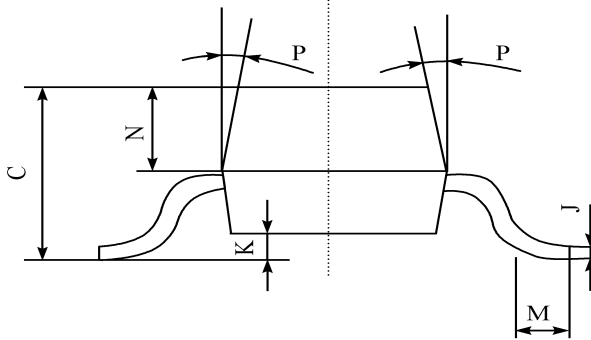


MMBTA44

■DIMENSION 外形封裝尺寸



序號	數值及公差
A	2.90 ± 0.10
B	1.30 ± 0.10
C	1.00 ± 0.10
D	0.40 ± 0.10
E	2.40 ± 0.20
G	1.90 ± 0.10
H	0.95 ± 0.05
J	0.13 ± 0.05
K	0.00 - 0.10
M	≥ 0.2
N	0.60 ± 0.10
P	7 ± 2°



This datasheet presents technical data of Tak Cheong's Silicon Rectifier Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website <http://www.takcheong.com>.

Although information in this datasheet has been carefully checked, no responsibility for the inaccuracies can be assumed by Tak Cheong. Please consult your nearest Tak Cheong's sales office for further assistance.

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