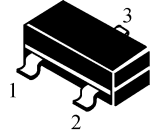


SOT-23

1. BASE
2. EMITTER
3. COLLECTOR



■ MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$) 最大額定值

CHARACTERISTIC 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Collector-Base Voltage 集電極-基極電壓	V_{CBO}	60	Vdc
Collector-Emitter Voltage 集電極-發射極電壓	V_{CEO}	50	Vdc
Emitter-Base Voltage 發射極-基極電壓	V_{EBO}	5.0	Vdc
Collector Current-Continuous 集電極電流-連續	I_c	100	mA
Collector Power Dissipation 集電極耗散功率	P_C	225	mW
Junction Temperature 結溫	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range 儲存溫度	T_{stg}	-55~150	$^{\circ}\text{C}$

■ DEVICE MARKING 打標

C945=CR
H_{FE}:120-220 200-400



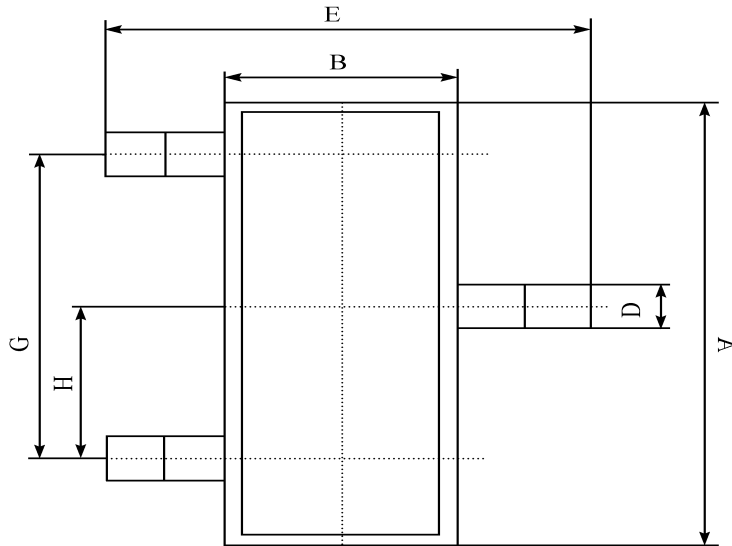
C945

■ELECTRICAL CHARACTERISTICS 電特性

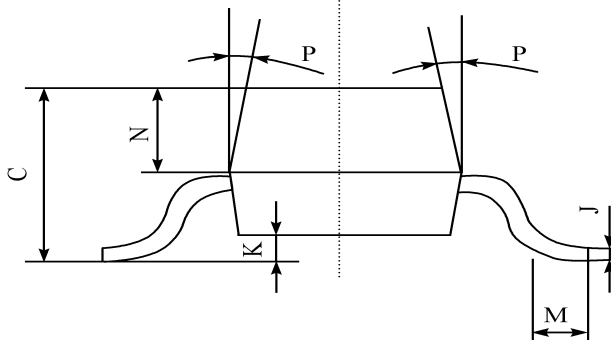
(T_A=25°C unless otherwise noted 如無特殊說明,溫度為 25°C)

Characteristic 特性參數	Symbol 符號	Test Condition 測試條件	Min 最小值	Typ 典型值	Max 最大值	Unit 單位
Collector Cutoff Current 集電極截止電流	I _{CBO}	V _{CB} =60V, I _E =0	—	—	0.1	μA
Emitter Cutoff Current 發射極截止電流	I _{EBO}	V _{EB} =5V, I _C =0	—	—	0.1	μA
Collector-Base Breakdown Voltage 集電極-基極擊穿電壓	V _{(BR)CBO}	I _C =100 μA	60	—	—	V
Collector-Emitter Breakdown Voltage 集電極-發射極擊穿電壓	V _{(BR)CEO}	I _C =1.0mA	50	—	—	V
Emitter-Base Breakdown Voltage 發射極-基極擊穿電壓	V _{(BR)EBO}	I _E =100 μA	5	—	—	V
DC Current Gain 直流電流增益	H _{FE}	V _{CE} =6V, I _C =1mA	120	—	400	—
Collector-Emitter Saturation Voltage 集電極-發射極飽和壓降	V _{CE(sat)}	I _C =100mA, I _B =10mA	—	—	0.3	V
Base-Emitter Saturation Voltage 基極-發射極電壓	V _{BE}	V _{CE} =5.0V, I _C =10mA	—	—	0.8	V
Transition Frequency 特徵頻率	f _T	V _{CE} =6.0V, I _C =1mA	—	250	—	MHz

■ 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	$7 \pm 2^\circ$



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>.

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