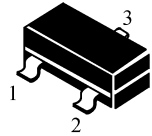


SOT-23

- 1. BASE
- 2. EMITTER
- 3. COLLECTOR



■FEATURES 特點

Excellent H_{FE} Linearity H_{FE} 線性特性極好： $h_{FE}(0.1mA) / h_{FE}(2mA) = 0.95$ (Typ.)

Low Noise 低雜訊： $NF = 1dB$ (Typ.), $10dB$ (Max.).

Complementary to S9014 与 S9014 互补

■MAXIMUM RATINGS ($T_a = 25^\circ C$) 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}	-50	Vdc
Collector-Emitter Voltage 集電極-發射極電壓	V_{CEO}	-45	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	-150	mAdc
Base Current 基極電流	I_B	-30	mAdc
Collector Power Dissipation 集電極耗散功率	P_C	225	mW
Junction Temperature 結溫	T_j	150	$^\circ C$
Storage Temperature Range 儲存溫度	T_{stg}	-55 ~ 150	$^\circ C$

■DEVICE MARKING 打標

S9015=M6

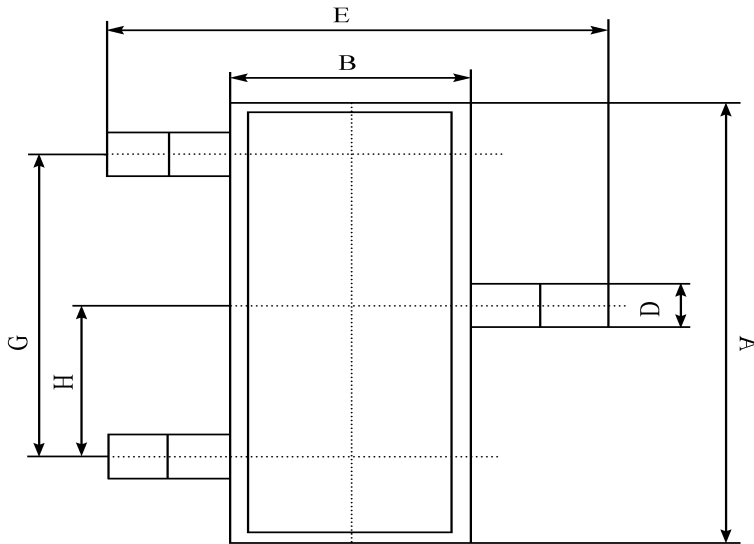


S9015

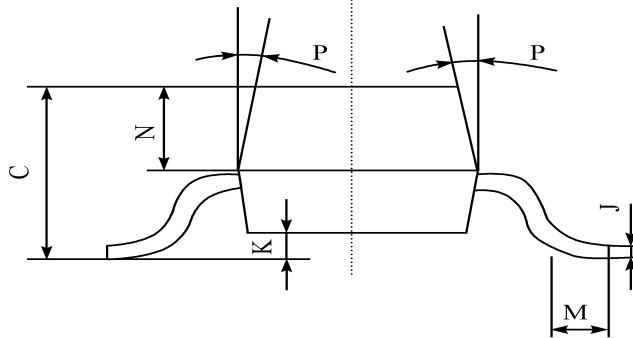
■ELECTRICAL CHARACTERISTICS 電特性**(T_A=25°C unless otherwise noted 如無特殊說明，溫度為 25°C)**

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} =-50V, 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	-50	—	—	V
Collector-Emitter Breakdown Voltage 集電極-發射極擊穿電壓	V _{(BR)CEO}	I _C =-1.0mA	-45	—	—	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 =-2mA	200	—	700	—
Collector-Emitter Saturation Voltage 集電極-發射極飽和壓降	V _{CE(sat)}	I _C =-100mA, I _B =-5mA	—	—	-0.6	V
Base-Emitter Voltage 基極-發射極電壓	V _{BE}	V _{CE} =-5.0V, I _C =-10mA	—	—	-0.82	V
Transition Frequency 特徵頻率	f _T	V _{CE} =-5.0V, I _C =-10mA	100	180	—	MHz
Collector Output Capacitance 輸出電容	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz	—	4.0	7.0	pF

■ 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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