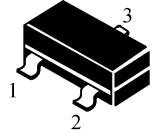


KEL[®]

M28S

SOT-23

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



■FEATURES 特點

High h_{FE} 高放大倍數

NPN silicon NPN

■MAXIMUM RATINGS 最大定額值($T_a=25^{\circ}\text{C}$)

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}	40	V
Collector-Emitter Voltage 集電極-發射極電壓	V_{CEO}	20	V
Emitter-Base Voltage 發射極-基極電壓	V_{EBO}	5	V
Collector Current-Pulse 集電極電流-脉冲	I_C	1000	mA
Collector Power Dissipation 集電極耗散功率	P_C	300	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

M28S=28S.
300~600 500~700 600~1200

KEL M28S

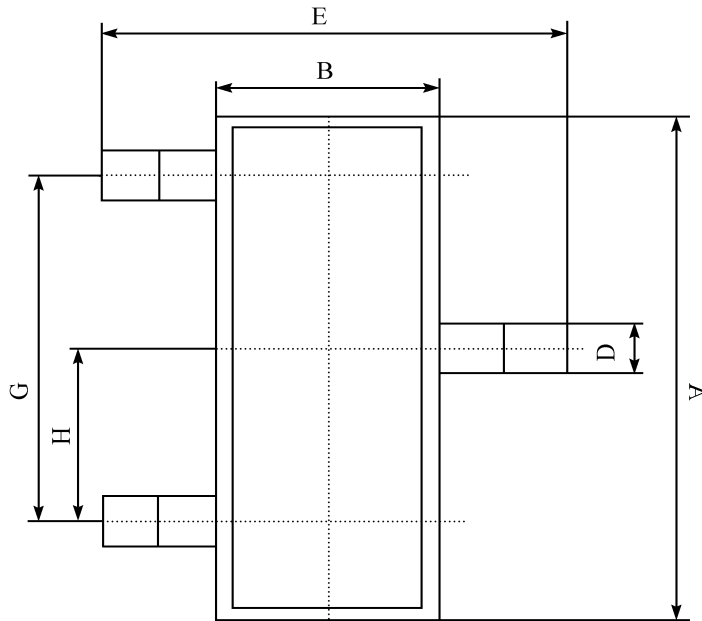


M28S

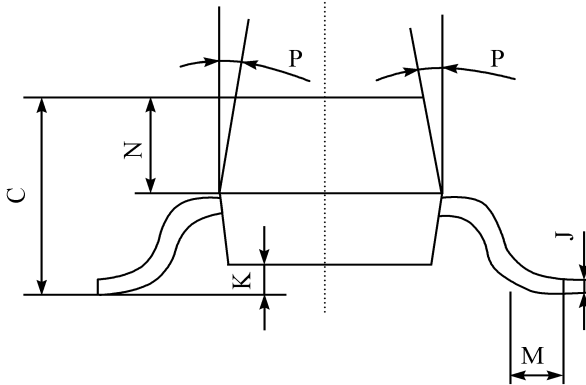
■ELECTRICAL CHARACTERISTICS 電特性**($T_A=25^{\circ}\text{C}$ unless otherwise noted 如無特殊說明，溫度為 25°C)**

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}	$V_{CB}=25\text{V}, I_E=0$	—	—	100	nA
Emitter Cutoff Current 發射極截止電流	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$	—	—	100	nA
Collector-Base Breakdown Voltage 集電極-基極擊穿電壓	$V_{(BR)CBO}$	$I_C=100\mu\text{A}$	40	—	—	V
Collector-Emitter Breakdown Voltage 集電極-射極擊穿電壓	$V_{(BR)CEO}$	$I_C=1\text{mA}$	20	—	—	V
Emitter-Base Breakdown Voltage 發射極-基極擊穿電壓	$V_{(BR)EBO}$	$I_E=100\mu\text{A}$	5	—	—	V
DC Current Gain 直流電流增益	h_{FE}	$V_{CE}=1\text{V},$ $I_C=100\text{mA}$	300	—	1200	—
Transition Frequency 特徵頻率	f_T	$V_{CE}=5\text{V}, I_C=10\text{mA}$	—	120	—	MHz
Collector-Emitter Saturation Voltage 集電極-發射極飽和壓降	$V_{CE(sat)}$	$I_C=600\text{mA},$ $I_B=20\text{mA}$	—	—	0.55	V

■ 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>.

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.

Tak Cheong reserves the right to make changes without further notice to any products herein to further improve reliability, function or design, cost and productivity.