

厚膜片式開關二極管 THICK FILM CHIP SWITCHING DIODE



厚膜片式開關二極管 THICK FILM CHIP SWITCHING DIODE

● 特點 FEATURES

- * 符合ROHS指令要求 RoHS compliant
- * 等同于1N4148電子特性 The electrical performance is equal as that of 1N4148.
- * 最先進的大批量生產方式准，可大幅度降低採購成本 Available for mass production, can help to reduce cost.
- * 革命性的封裝形式准，適用於高速貼片准，可大幅度降低拋料率
With improved chip shape which can effectively reduce the pick up error during high speed SMT.
- * FHD41481206可直接代替LL-34 FHD41481206 is available to replace LL-34 directly.
- * 端頭強度可達到GB/T 2423.29-1999 2mm標準，徹底杜絕了之前同類產品抗彎強度差的問題
The terminal strength has been improved and became more reliable according to the standard of GB/T 2423.29-1999.
- * 適應再流焊與波峰焊 Suit for reflow and wave flow solder.

● 應用領域APPLICATION

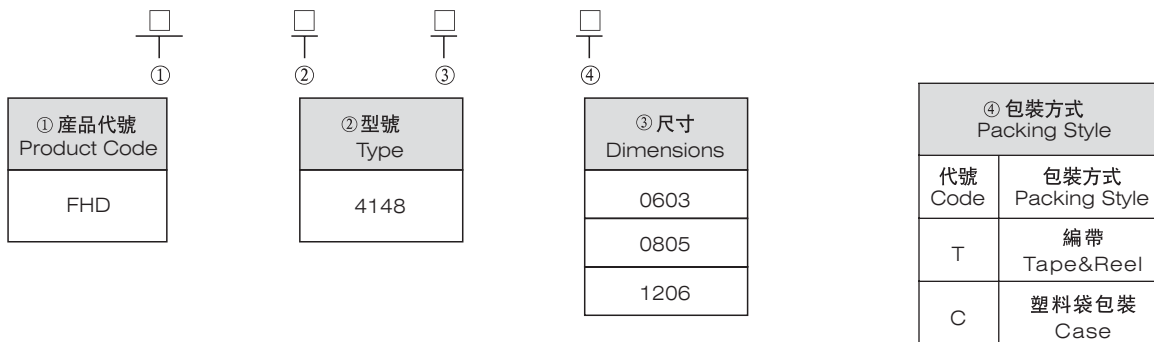
家用電腦、電視機、通信設備、家用音響、影碟機、儀器儀表等
PC、TV、Communication、HiFi、DVD、Apparatus Meter etc.

● 參考標準 REFERENCE STANDARD

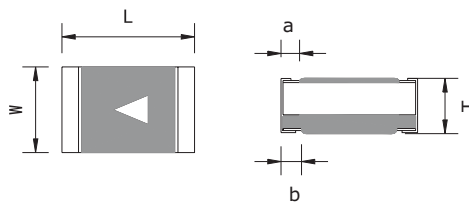
GB/4589.1-2006 GB/T 6571-1995
GB/T 4023-1997 GB/T 6588-2000

● 品名構成 TYPE DESIGNATION

例 Example



● 尺寸 DIMENSIONS



Unit:mm

型號 Type	尺寸 Dimensions	L	W	T	a	b
0603		1.60±0.15	0.85±0.15	0.70±0.10	0.26±0.20	0.26±0.20
0805		2.00±0.20	1.25±0.15	0.75±0.10	0.28±0.20	0.45±0.20
1206		3.20±0.20	1.50±0.15	0.80±0.10	0.60±0.20	0.60±0.20

● 電子特性 ELECTRICAL CHARACTERISTICS

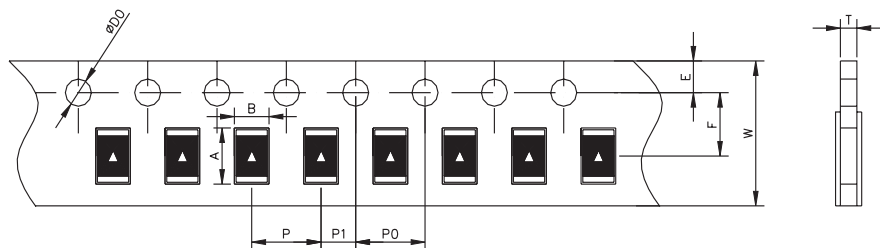
特性 characteristics	測試條件 Test Condition	符號 Symbol	最小 Min	最大 Max	單位 Unit
反向擊穿電壓 Reverse Breakdown Voltage	$I_r = 100 \mu A$	V_{BR}	100		V
反向漏電 Reverse Leakage Current	$V_r = 20V$ $V_r = 75V$	I_{R1} I_{R2}		25 5.0	nA μA
正向電壓 Forward Voltage	$I_f = 100mA$	V_f		1.1	V
電容 Diodes Capacitance	$V_r = V_f = 0V$ $f = 1.0MHz$	$C_{T0.1}$		4.0	PF
反向恢復時間 Reverse Recovery Time	$I_r = I_{RM} = 10mA$	t_{rr}		4.0	ns

● 額定值 RATING

額定值 Rating	符號 Symbol	值 Value	單位 Unit
反向直流電壓 Continuous Reverse Voltage	V_R	75	Vdc
反向峰值電壓 Peak Reverse Voltage	V_{RM}	100	Vdc
正向連續電流 Continuous Forward Current	I_S	150	mA
正向重複峰值電流 Peak Forward Current	I_{FSM}	200	mA
正向浪涌電流 Peak Forward Surge Current(1 μs)	I_{FSM}	2000	mA
最大耗散功率 Power Dissipation	P_{TOT}	500	mW
最高有效(等效)結溫 Junction Temperature	T_{TVJ}	175	$^{\circ}C$
儲存溫度 Storage Temperature	Tstg	-55 to +150	$^{\circ}C$

● 包裝 PACKAGING

* 編帶包裝 Tape and reel



厚膜片式開關二極管

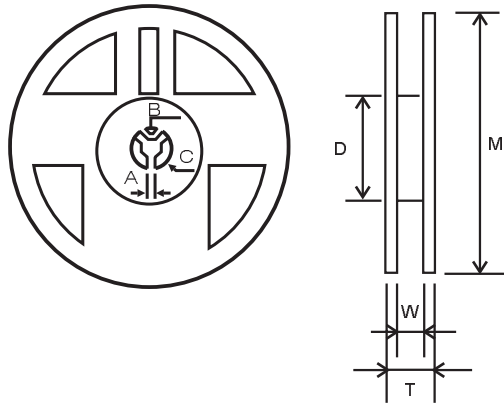
THICK FILM CHIP SWITCHING DIODE

Unit:mm

型號 TYPE	A	B	W	F	E
0603	1.85±0.1	1.10±0.1	8.0±0.20	3.5±0.05	1.75±0.1
0805	2.35±0.1	1.65±0.1	8.0±0.20	3.5±0.05	1.75±0.1
1206	3.50±0.2	1.90±0.2	8.0±0.20	3.5±0.05	1.75±0.1

型號 TYPE	P	P0	P1	ΦD0	T
0603	4.0±0.1	4.0±0.1	2.0±0.05	1.5±0.1	0.87±0.1
0805	4.0±0.1	4.0±0.1	2.0±0.05	1.5±0.1	0.95±0.1
1206	4.0±0.1	4.0±0.1	2.0±0.05	1.5±0.1	0.95±0.1

卷盤 Reel



型號 TYPE	M	W	T	A	B	C	D
0603	178	9.5	12.5	2.0	13.0	21.0	58.0
0805							
1206	±2.0	±1.0	±1.5	±0.5	±0.5	±0.5	±2.0

• 包裝數量 PACKAGING QUANTITY

包裝方法 Packaging style	編帶 Tape and reel			塑料袋散裝 Case		
型號 Type	0603	0805	1206	0603	0805	1206
數量 (PCS) Quantity	4000			≤10000		