

恒流二极管

CRD

CRD的作用是在电源电压或者负载阻抗波动的时候给电路提供稳定电流。
CRD用于稳定和限制电流。

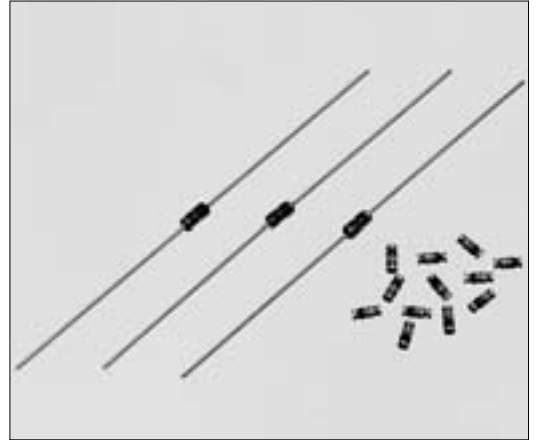
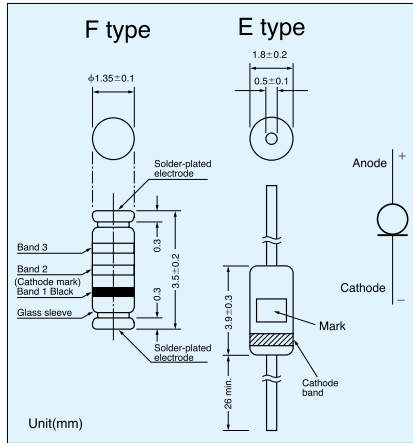
编号

102

Packing condition
None : E Series, Individually packed in a bag
26Z : E Series, 26mm wide axial taping winding type
26R : E Series, 26mm wide axial taping role type
52Z : E Series, 52mm wide axial taping winding type
52R : E Series, 52mm wide axial taping role type
RE : E Series, Radial taping winding type
T : F Series, Taping role type

Pinch off current
e.g.) : 301⇒30×10¹μA=0.3mA
102⇒10×10²μA=1.0mA
452⇒45×10²μA=4.5mA

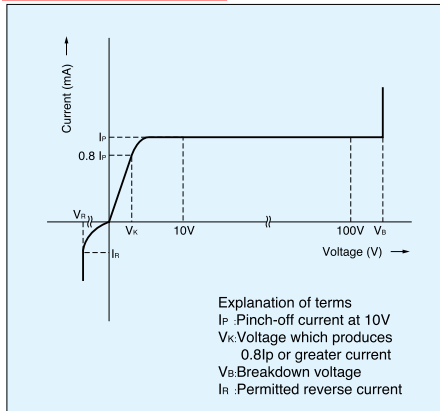
E : Lead wire type
F : Lead less type



Specifications

Part No.	Pinch-off current*1 lead less with lead	Limiting current*2 Test Voltage	Ip(mA)	V _K (V)	I _K (mA)	Dynamic impedance Z _r (MΩ)	Limiting current ratio I _{100V} /I _p *100V/I _p	Temperature coefficient (%/°C)	Indication		
									F type		E
									Band 2	Band 3	Type
F-101L E-101L		10V	0.01~0.06	0.4	0.8lpmin.	8.00	1.1max.	+2.10~+0.10	Light blue	White	1L
F-101 E-101			0.05~0.21	0.5		6.00		+2.10~+0.10		Pink	01
F-301 E-301			0.20~0.42	0.8		4.00		+0.40~-0.20		Orange	03
F-501 E-501			0.40~0.63	1.1		2.00		+0.15~-0.25		Yellow green	05
F-701 E-701			0.60~0.92	1.4		1.00		0.00~-0.32		Blue	07
F-102 E-102			0.88~1.32	1.7		0.65		-0.10~-0.37		Pink	10
F-152 E-152			1.28~1.72	2.0		0.40		-0.13~-0.40		Orange	15
F-202 E-202			1.68~2.32	2.3		0.25		-0.15~-0.42		Yellow green	20
F-272 E-272			2.28~3.10	2.7		0.15		-0.18~-0.45		Light blue	27
F-352 E-352			3.00~4.10	3.2		0.10		-0.20~-0.47		Blue	35
F-452 E-452			3.90~5.10	3.7		0.07		-0.22~-0.50		Purple	45
F-562 E-562			5.00~6.50	4.5		0.04		-0.25~-0.53		White	56
F-822 E-822			6.56~9.84	3.1		0.32		-0.25~-0.45		Yellow	82
F-103 E-103			8.00~12.0	3.5		0.17	*1.0max.	-0.25~-0.45		Pink	10
F-123 E-123			9.60~14.4	3.8		0.08		-0.25~-0.45		Orange	12
F-153 E-153			12.0~18.0	4.3		0.03		-0.25~-0.45		Light blue	15

基础特性



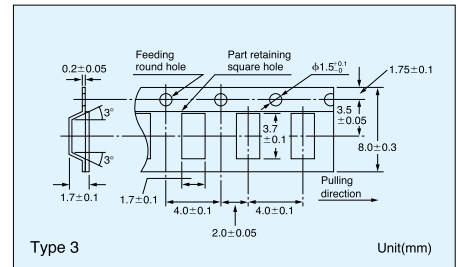
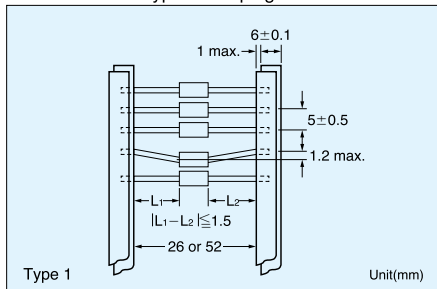
*1, *2: 修剪和限制电流在25度环境下通过脉冲电流测量

*3 : ZT是在10KHZ的小AC信号增加到25VDC时的最小阻抗。ZT被视为标准值。

*4 : 温度系数在25度和50度之间测量

Taping

There are three Types for taping.



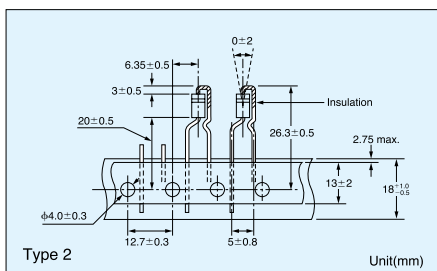
*In principal elements are set with cathode side on the round hole side.

最大额定值

	E type	F type
Rating power	300mW	400mW
Thermal resistance	300°C/W	150°C/W
Reverse current	50mA	
Operating temp	-30°C~150°C	

最大额定电压

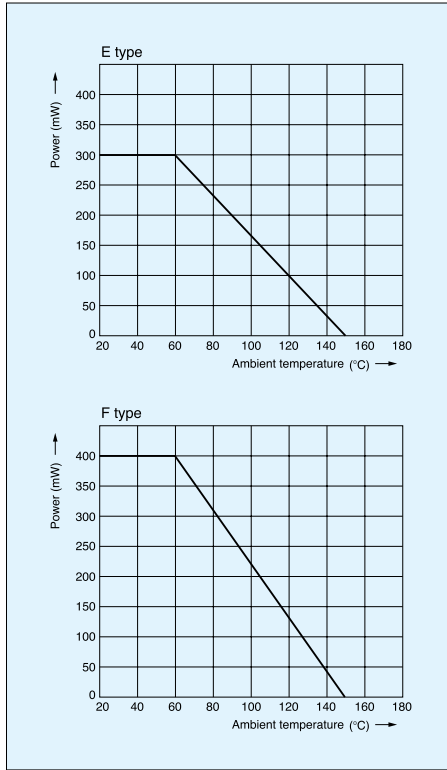
Part No.	Voltage	Part No.	Voltage
E101L~E-562	100V	F101L~F-562	100V
E-822	30	F-822	50
E-103		F-103	42
E-123		F-123	34
E-153	25	F-153	28



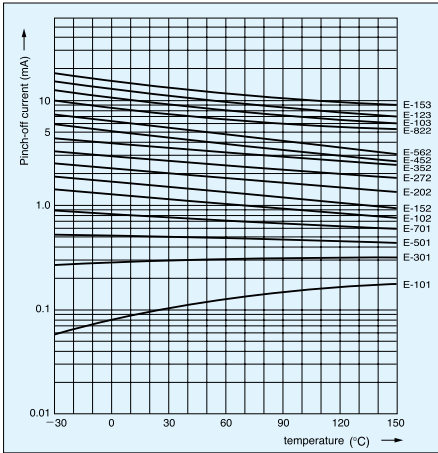
Minimum taping quantity for

Type 1 Roll.....5000pcs
Box.....2500pcs
Type 2 4000pcs
Type 3 2500pcs

功率额定值



恒电流温度系数

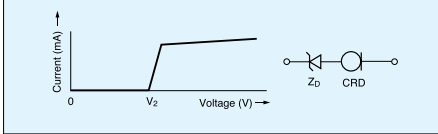


并联CRD

将CRD并联可增加他们的电流处理能力

使用齐纳二极管可增加电压范围

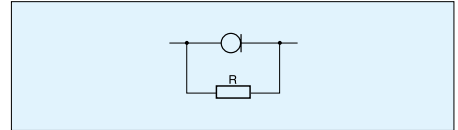
将齐纳二极管串联可保证电路在高电压范围内的电流稳定。



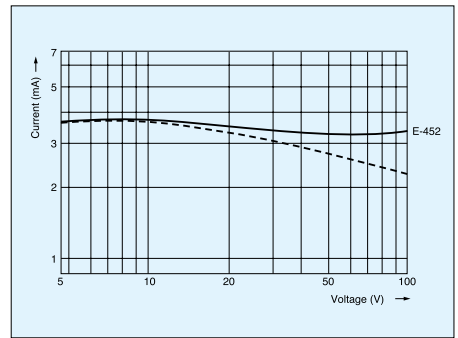
由自热而造成的电流降低时的电流补偿

将电阻同CRD并联可修正由任何电压降低而造成的电流降低。下列为修正电阻的典型数值：

E-102	1MΩ	E-352	82kΩ
E-152	390kΩ	E-452	56kΩ
E-202	240kΩ	E-562	39kΩ
E-272	120kΩ		



如果电流小于1mA时不需要使用补偿电阻



动态特性（饱和特性）

