

HK 系列高压触发二极管

产品描述：

高压触发二极管是基于晶闸管原理和结构的一种两端负阻器件。由于被触发导通时两端的电压只有 1.5V 左右，因此这种器件的工作状态类似一个开关，故又称于双向触发开关。

产品应用：

- (1) 高压发生器电路该电路，可用于空调、电冰箱，作为电子杀菌、除菌用；
 (2) 低电压输入的电子起辉电路、高压灯（汞灯、钠灯、金卤灯等）触发器、日光灯起辉、燃气点火、灶具热水器点火等。

Part Number	V _{BO} (V)		I _{BO} (μA)	V _{DRM} (V)	I _{DRM} (μA)	I _T (A)	I _H (mA)	V _{TM} (V)
	Min	Max	Max	Min	Max	Max	Max	Max
HK100	90	110	10	60	5	1.0	100	1.5
HK105	95	113	10	90	5	1.0	100	1.5
HK110	104	118	10	90	5	1.0	100	1.5
HK120	110	125	10	90	5	1.0	100	1.5
HK130	120	138	10	90	5	1.0	100	1.5
HK140	130	146	10	90	5	1.0	100	1.5
HK150	140	170	10	115	5	1.0	100	1.5
HK195	165	190	10	130	5	1.0	100	1.5
HK200	190	215	10	150	5	1.0	100	1.5
HK220	205	230	10	165	5	1.0	100	1.5
HK240	220	250	10	175	5	1.0	100	1.5
HK3100	275	350	10	275	5	1.0	100	1.5
HK3500	320	400	10	320	5	1.0	100	1.5

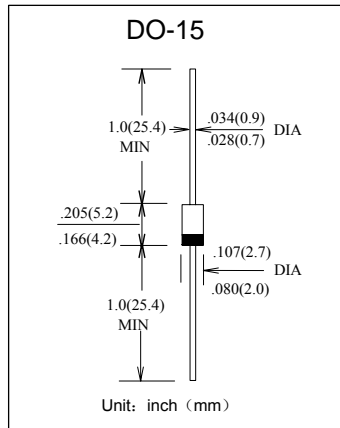
Series	I _{PP} (A)	I _{TSM} (A)		di/dt (A / μs) T _{YP}
		60Hz	50Hz	
HK	40	20	16.7	50

封装形式：

R-1、D0-41、D0-15、T0-92、T0-202、SMB、S0D-123

双向触发二极管

SILICON BIDIRECTIONAL DIAC



特征 Features

- 低的反向漏电流 Low reverse leakage
- 较强的正向浪涌承受能力 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed:
250°C/10 秒, 0.375" (9.5mm) 引线长度。
250°C/10 seconds, 0.375" (9.5mm) lead length,
- 引线可承受5 磅 (2.3kg) 拉力。 5 lbs. (2.3kg) tension

机械数据 Mechanical Data

- 端子: 镀锡轴向引线 Terminals: Plated axial leads
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

ABSOLUTE RATINGS (LIMITING VALUES)

Symbols	Parameters	Value HK240	Units
P_c	Power Dissipation on Printed Circuit [L=10mm] $T_A=50^\circ\text{C}$	150	mW
I_{TRM}	Repetitive Peak on-state Current $t_p=10\text{s}$ $F=100\text{Hz}$	2.0	A
T_{STG}/T_J	Storage and 0 perating Junction Temperature	-40 to +125 / -40 to 110	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

Symbols	Parameters	Test Conditions	Value HK240		Units
			Min	Max	
V_{BO}	Breakover Voltage [Note 2]	C=22nF [Note 2] See Diagram 1	220	250	V
$I + V_{BO}$ $I - V_{BO}$	Breakover Voltage Symmetry	C=22nF [Note 2] See Diagram 1	± 3		V
$I \pm \Delta V_I$	Dynamic Breakover Voltage [Note 1]	$\Delta I = [I_{BO} \text{ to } I_F = 10\text{mA}]$ See Diagram 1	5		V
V_o	Output Voltage [Note 1]	See Diagram 2	5		V
I_{BO}	Breakover Current [Note 1]	C=22nF [Note 2]	100		A
t_r	Rise Time [Note 1]	See Diagram 3	1.5		S
I_B	Leakage Current [Note 1]	$V_{BBO}=0.5\text{V max}$ See Diagram 1	10		A

DIAGRAM 1: Current-voltage characteristics

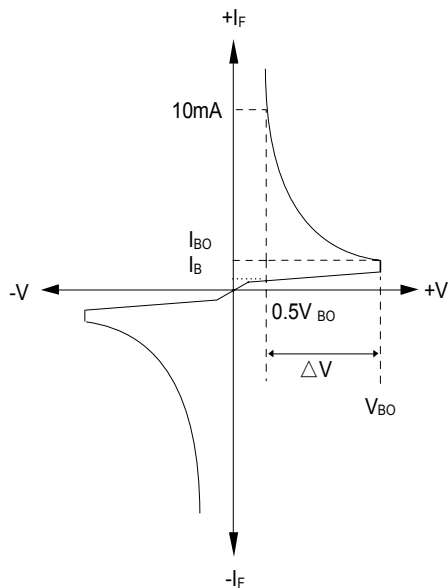


FIG.1-Power dissipation versus ambient temperature (maximum values)

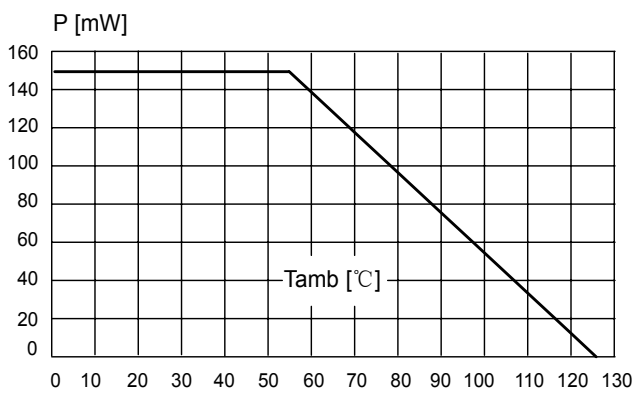


FIG.3-Peck pulse current versus pluse duration (maximum values)

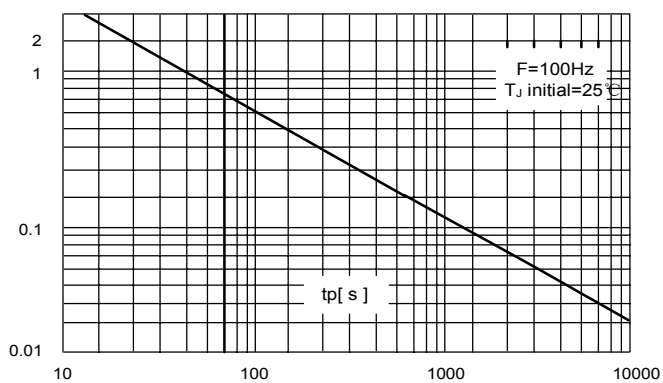


DIAGRAM 2: Test circuit for output voltage

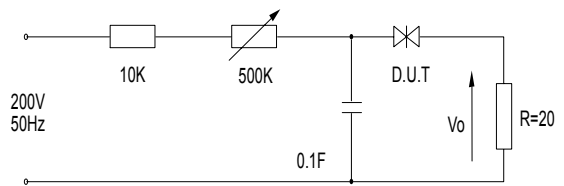


DIAGRAM 3: Test circuit see diagram 2 adjust R for $I_p = 0.5\text{A}$

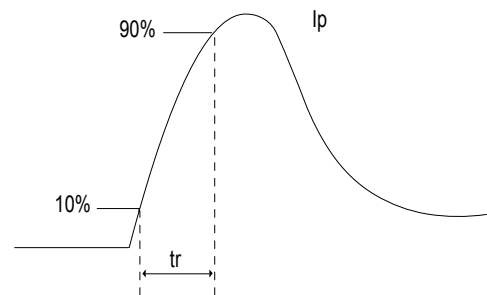


FIG.2-Relative variation of VBO versus junction temperature (typical values)

