

# SIDAC (SILICON DIODE FOR ALTERNATING CURRENT)

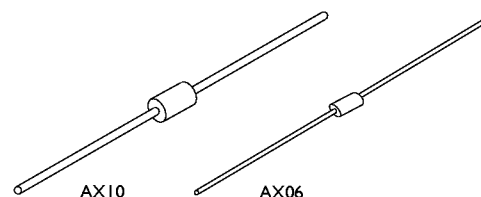
## Sidac

### Features

1. Symmetrical characteristics.
2. Directly switching performance to commercial power sources and generating pulse by simple circuit.
3. The glass passivation ensures high reliability.

### Application

1. Pulse generating (gas igniters, high voltage sodium lamp drive circuit etc.)
2. AC switching (drive circuit for switching power supplies, voltage detecting circuits etc.)
3. Over voltage protecting (AC line surge protection, capacitors Over voltage protection etc.)



Type No.	Color Code	Absolute Maximum Ratings								Electrical Characteristics										Outline										
		V <sub>DRM</sub>	I <sub>T</sub>	Conditions T <sub>J</sub>	I <sub>TSM</sub>	I <sub>TRM</sub>	Conditions f	diT/dt	T <sub>stg</sub>	T <sub>J</sub>	V <sub>BO</sub>	I <sub>DRM</sub> (max)	Conditions V <sub>D</sub>	I <sub>BO</sub> (max)	I <sub>H</sub> (typ)	V <sub>T</sub> (max)	Conditions I <sub>T</sub>	R <sub>s</sub> (min)	θ <sub>J</sub> (max)	Package	Figure									
		[V]	[A]	[°C]	[A]	[A]	[kHz]	[A/μs]	[°C]	[°C]	[V]	[μA]	[V]	[mA]	[mA]	[V]	[A]	[kΩ]	[°C/W]											
KIV5	Red	40	1	107	13	25	1	80	-40~125	125	45~60	10	40	0.5	50	1.5	1	0.1	15	AX10	6									
6	Gold										55~65																			
KIV8	Silver	70	1	107	20	25	1	80	-40~125	125	77~95	10	70	0.5	50	1.5	1	0.1	15											
KIV10	Orange	90	1	112	20	25	1	80	-40~125	125	95~113	10	90	0.5	50	1.5	1	0.1	15											
11	Blue										104~118																			
12	Green										110~125																			
KIV14	Violet	115	1	109	20	25	1	80	-40~125	125	125~150	10	115	0.5	30	1.5	1	0.1	15											
16											145~170																			
KIV18	Violet	150	1	108	20	25	1	80	-40~125	125	165~200	10	150	0.5	50	1.5	1	0.1	15											
KIV22		180	1	108	20	25	1	80	-40~125	125	200~230	10	180	0.5	20	1.5	1	0.1	15											
24	Yellow										220~250																			
26											240~270																			
22(W)											200~230																			
24(W)	Yellow	180	1	91	16	17	1	80	-40~125	125	220~250	10	180	0.5	50	3	1	0.1	15	AX10	7									
26(W)											240~265																			
KIV33(W)											309~355																			
34(W)	Blue	270	1	92	13	15	1	50	-40~125	125	320~360	10	270	0.5	50	3	1	0.1	15	AX10	6									
36(W)											340~380																			
38(W)											360~400																			
KIV(A)10	Orange	90	1	98	16	15	1	50	-40~125	125	95~113	10	90	0.5	50	1.6	1	0.1	20	AX06	2									
(A)11	Blue										104~118																			
(A)12	Green										110~125																			
(A)14	Violet										125~150																			
(A)16											145~170																			