

Thermal Cut-Offs SDJ1/SDJ2

GENERAL

Our Thermal Cut-Offs (Organic Thermal Element Type) are used to prevent fires caused by abnormal heat generation from circuits and other heat producing electrical products. They are a non-resettable thermal fuse which open electrical contacts when temperatures exceed the specified level.



OPERATING PRINCIPLE

When the ambient temperature rises to the functioning temperature, the thermal element melts and the springs move the contact away and open the circuit permanently.

APPLICATIONS

- · Electric home appliances and heating devices
- · Coil-winding products and power supplies
- · Office equipment and telecommunication devices
- · Automobiles & other electronic components

CAUTIONS

- Bends in leads should be at least 3mm from the body of the TCO.
- Extreme caution must be used while soldering, use a heatsink and avoid heating above Tf -24°C.
- The metal portion of the TCO is electrically live and may require insulation.
- Do not use in liquids or poisonous gasses such as sulfuric acid or nitrous oxide.
- · Do not connect heater directly to the cutoff.

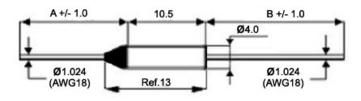
APPROVALS

UL & cUL: E117626 VDE: 115369, 116219

PSE: JET2926-32001-1001-1009

CCC: 2003010205079617 EK: HH05009-2004A-2019A

DIMENSIONS (mm)



Туре	A (L1)	B (L2)		
Standard	25.4	35.0		
Long	35.0	35.0		
Option	Custom made	Custom Made		







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Part No.	UL/cUL	VDE	ссс	PSE	T _F (°C)	T _H (°C)	
DF50S	-	2	-	0	50	30	
DF57S	-	-	-	0	57	37	
DF66S	0	0	0	0	66	42	
DF72S	0	0	0	0	72	50	
DF77S	0	0	0	0	77	55	
DF84S	0	0	0	0	84	60	
DF91S	0	0	0	0	91	67	
DF98S	0	0	0	0	96	76	
DF100S	0	0	0	0	100	78	
DF104S	0	0	0	0	104	80	
DF110S	0	0	0	0	110	86	
DF115S	-	-	- 2	0	115	95	
DF119S	0	0	0	0	119	95	
DF121S	-	-	12	0	121	95	
DF128S	0	0	0	0	128	106	
DF133S	-	-	7-5	0	133	117	
DF139S	0	-	-	0	139	117	
DF141S	0	0	0	0	141	117	
DF144S	0	0	0	0	144	120	
DF152S	0	0	0	0	152	128	
DF167S	0	0	0	0	167	142	
DF169S	-	-	7	0	169	145	
DF170S	0	0	0	0	170	146	
DF179S	-	-	-	0	179	155	
DF184S	0	0	0	0	184	160	
DF192S	0	0	0	0	192	162	
DF198S	-	-	7-	0	198	162	
DF205S	-	-		0	205	181	
DF216S	-	0	0	0	216	191	
DF222S	-	-	-	0	222	195	
DF228S	0	0	0	0	228	193	
DF240S	0	0	0	0	240	200	
DF260S	-	-		-	260	220	
DF280S	-	-	- 5	-3.7	280	230	

T _F =	= Functioning	Tempera	ture	T _H =	= Holdi	ng Te	empe	rature

Rated Voltage & Current Max.			
EK	250V/15A		
UL/cUL	125V/15A		
	250V/10A		
	250V/16A		
VDE	250V/15A		
PSE	125V/15A		
	250V/15A		
CCC	250V/15A		

Before fusing off



After fusing off



0	APPROVED		
_	ON APPLYING		
TOLERANCE: +0°C, -5°C			

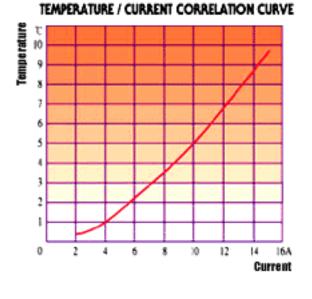


DETERMINE THE PROPER SERIES

- **Tp**: The highest temperature of the product to which a cutoff is to be attached.
- Th: The safe temperature range for use of the cutoff.
- **Ts**: 24°C (Tp-Th) (Apply 35°C for Ts value when Tp is higher than 170°C.)
- **To**: The heating temperature caused by electrical load (Please refer temperature / current correlation curve)

• +a :

- 1. Self heating of lead wire
- 2. Structure of ventilation or airtightness
- 3. Location of connecting terminal
- 4. Thickness of insulated covering material
- 5. Best condition value considering electric voltage changes



Tp + Ts + To +a = Applicable Temperature

SAFE TEMPERATURE RANGE

- The increasing temperature by remaining heat in the cutoff after melting is required to remain below Tm.
- The temperature of the area where a cutoff will be attached should not reach over Th under normal usage conditions.

