

# DCT Special Purpose Midget Fuses

Mersen DCT fuses were developed to meet requirements coming from new applications such as protection of photovoltaic cells, multi meters and compact on board traction equipment for auxiliary circuits. This high performance DC fuse in its compact size offers multiple competitive advantages particularly for international applications where DC voltage requirements are above 600V DC.

## Features/Benefits:

- Low minimum breaking capacity (MBC)
- Compact size: 10 x 38 mm (13/32" x 1-1/2") size internationally accepted.
- Ferrule mount 1 to 30A for design versatility
- Can be used with UltraSafe™ fuse holders USM series
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

## Highlights:

- 750VAC / 1000VDC
- DC : L/R = 1mS

## Applications:

- DC traction equipment
- Multi-meters
- Photovoltaic systems
- Semiconductor protection

## Catalog Numbers, I<sup>2</sup>t (at 50,000 Amps –1000VDC L/R = 1ms)

Catalog Number	Clearing I <sup>2</sup> t(A <sup>2</sup> s)	Watts Loss @ 80% Rating (W)	Watts Loss @ 100% Rating (W)
DCT1-2	-	0.2	0.32
DCT2-2	-	0.27	0.43
DCT3-2	-	0.9	1.4
DCT4-2	-	0.8	1.3
DCT5-2	-	0.9	1.4
DCT6-2	-	1.0	1.5
DCT7-2	-	1.1	1.5
DCT8-2	83	0.7	1.1
DCT10-2	127	0.9	1.5
DCT12-2	215	1.3	2.0
DCT15-2	495	1.9	3.0
DCT20-2	755	2.6	4.4
DCT25-2	970	2.9	5.3
DCT30-2	1650	3.0	5.8

## Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	Catalog Number			
	UltraSafe™ Fuse Holder	Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1	30311	30321	30351
2	USM2	30312	30322	30352
3	USM3	30313	30323	30353



## Ratings:

- Volts** : 750VAC  
: 1000VDC
- Amps** : 1 to 30A
- I.R.** : 100kA I.R. AC  
: 50kA I.R. DC
- MBC** : 2.0 x I<sub>n</sub> (AC)  
: 1.3 x I<sub>n</sub> (DC : 1 - 7A)  
: 2.0 x I<sub>n</sub> (DC : 8 - 30A)
- L/R** : 1mS

## Approvals:

- UL Recognized component File E60314

