

# DATA SHEET

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## Applications

• Switching regulators, high-frequency rectification.

#### Features

- Fast reverse recovery time and small switching loss.
- Reverse voltage : VRM=200 to 400V.
- Average rectified current : IO=1.0A.

## **Specifications**

#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	DLM10C DLM10E		Unit
Peak Reverse Voltage	VRM		200	400	V
Average Rectified Current	IO	50Hz, resistive load, no fin, Ta=57°C resistive load (L=8mm, print land 10×10mm)	1	А	
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	30		A
Junction Temperature	Tj		150		°C
Storage Temperature	Tstg		-40 to +150		°C

#### Electrical Characteristics [DLM10C] at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Forward Voltage	VF	IF=1.0A			0.98	V
Reverse Current	IR	V <sub>RM</sub> =200V			10	μΑ
Reverse Recovery Time	t <sub>rr</sub>	IFM=1A, -di/dt=50A/µs			35	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)	No heat sink, DLM10 only			115	°C / W

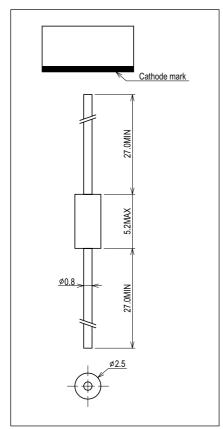
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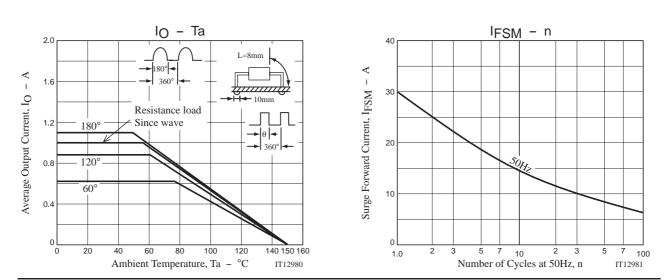
## Electrical Characteristics [DLM10E] at Ta=25°C

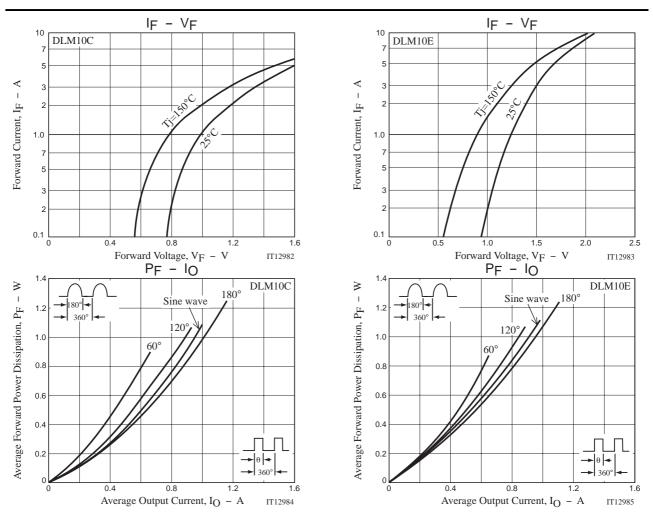
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Forward Voltage	VF	IF=1.0A			1.25	V
Reverse Current	IR	V <sub>RM</sub> =400V			20	μA
Reverse Recovery Time	trr	IFM=1A, -di/dt=50A/µs			30	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)	No heat sink, DLM10 only			115	°C / W

### Package Dimensions

unit : mm (typ) 7811-001







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