

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: DLM10E
Manufacturer: onsemi
Package: DO-204AL, DO-41, Axial
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/onsemi/dlm10e.html>

Request a Quote:

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New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



SANYO Semiconductors

DATA SHEET

DLM10

 — Silicon Diffused Junction Type

1.0A Ultrahigh-Speed Rectifier

Applications

- Switching regulators, high-frequency rectification.

Features

- Fast reverse recovery time and small switching loss.
- Reverse voltage : $V_{RM}=200$ to $400V$.
- Average rectified current : $I_O=1.0A$.

Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

Parameter	Symbol	Conditions	DLM10C	DLM10E	Unit
Peak Reverse Voltage	V_{RM}		200	400	V
Average Rectified Current	I_O	50Hz, resistive load, no fin, $T_a=57^\circ C$ resistive load (L=8mm, print land 10×10mm)	1.0		A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	30		A
Junction Temperature	T_J		150		$^\circ C$
Storage Temperature	T_{stg}		-40 to +150		$^\circ C$

Electrical Characteristics [DLM10C] at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=1.0A$			0.98	V
Reverse Current	I_R	$V_{RM}=200V$			10	μA
Reverse Recovery Time	t_{rr}	$I_{FM}=1A$, $-di/dt=50A/\mu s$			35	ns
Thermal Resistance (Junction-Ambient)	$R_{th(j-a)}$	No heat sink, DLM10 only			115	$^\circ C / W$

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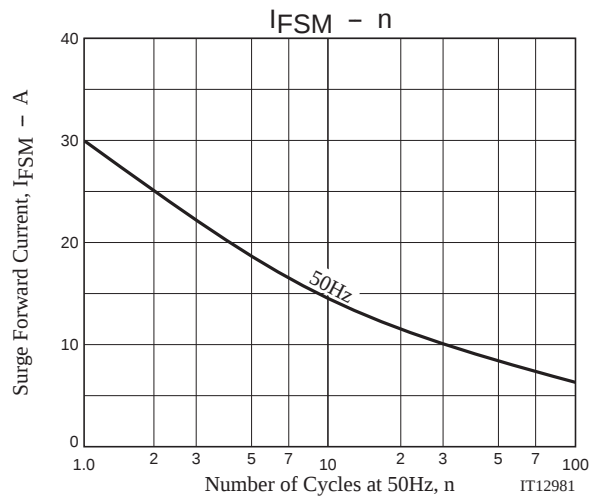
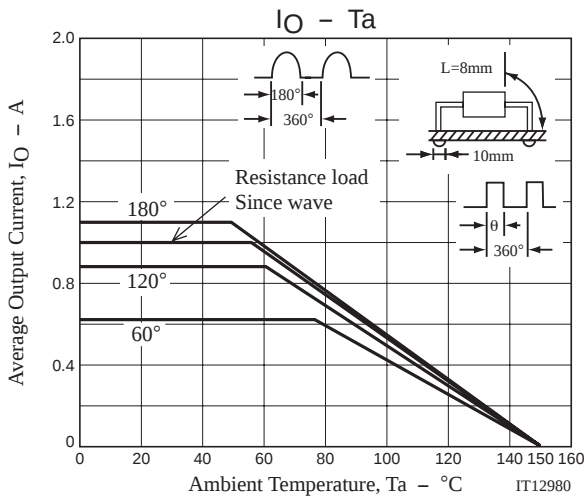
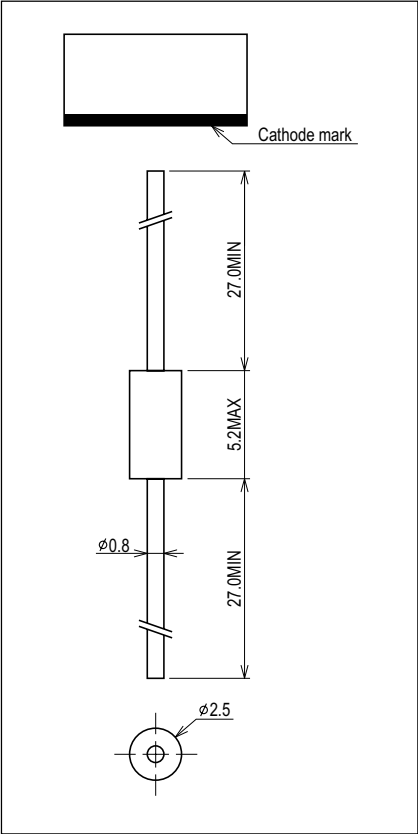
DLM10

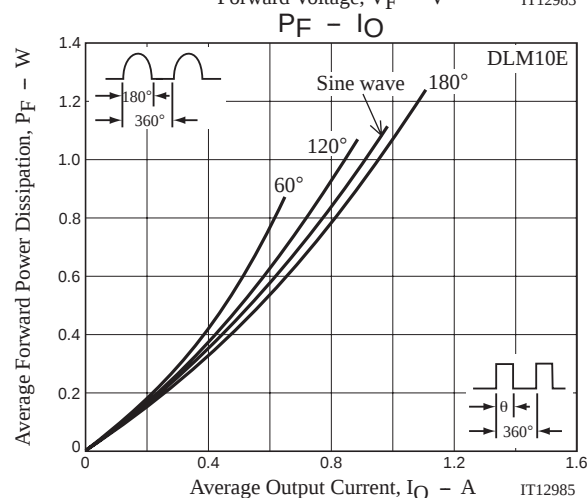
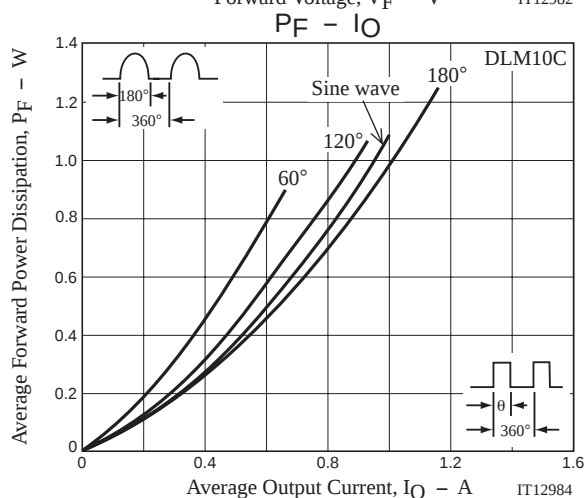
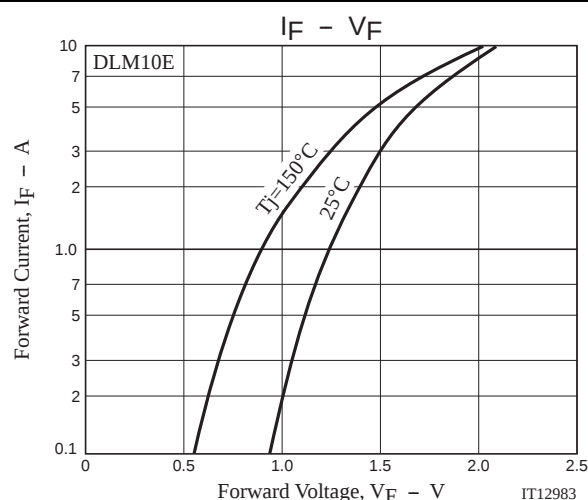
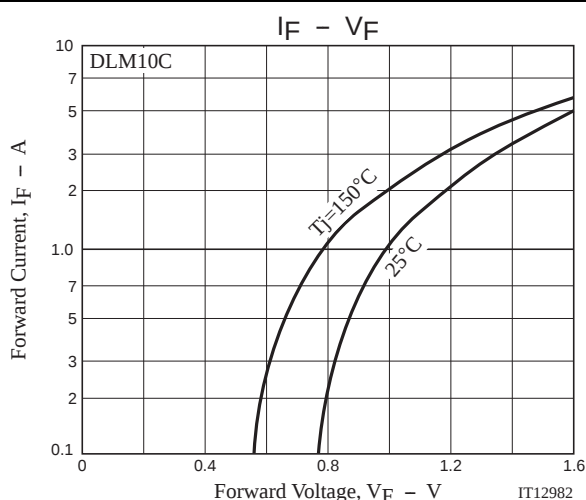
Electrical Characteristics [DLM10E] at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=1.0A$			1.25	V
Reverse Current	I_R	$V_{RM}=400V$			20	μA
Reverse Recovery Time	t_{rr}	$I_{FM}=1A, -di/dt=50A/\mu s$			30	ns
Thermal Resistance (Junction-Ambient)	$R_{th(j-a)}$	No heat sink, DLM10 only			115	$^{\circ}C / W$

Package Dimensions

unit : mm (typ)
7811-001





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