

DLN10

Silicon Diffused Junction Type

Low-loss Rectifier

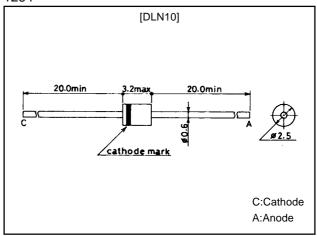
Features

- · Fast reverse recovery time, small switching loss.
- \cdot Peak reverse voltage : V_{RM} =200 to 400V.
- \cdot Average rectified current : $I_{\mbox{\scriptsize O}} \! = \! 1.0 \mbox{\scriptsize A}.$

Package Dimensions

unit:mm

1264



Specifications

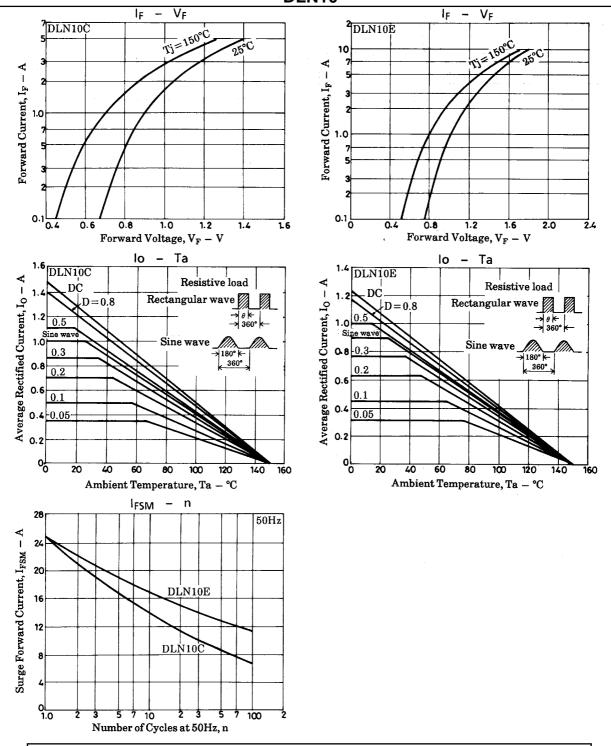
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	DLN10C	DLN10E	Unit
Peak Reverse Voltage	V _{RM}		200	400	V
Average Rectified Current	lo	[DLN10C] Ta=25°C	1.0		Α
		[DLN10E] Ta=25°C		0.9	Α
		T ℓ =137°C		1.0	Α
Surge Forward Current	IFSM	50Hz sine wave, non-repetitive, 1 cycle peak value	\rightarrow	25	Α
Junction Temperature	Tj		\rightarrow	150	°C
Storage Temperature	Tstg		\rightarrow	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Unit
[DLN10C]	•		•		•	
Forward Voltage	VF	I _F =1A			0.98	V
Reverse Current	I _R	V _R =200V			10	μΑ
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A			35	ns
Thermal Resistance	Rth(j- ℓ)	Junction-Lead			10	°C/W
	Rth(j-a)	Juntion-Ambeient			113	°C/W
[DLN10E]	,		1		•	
Forward Voltage	V _F	I _F =0.9A			1.3	V
Reverse Current	I _R	V _R =400V			10	μΑ
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1A			50	ns
Thermal Resistance	Rth(j-ℓ)	Junction-Lead			10	°C/W
	Rth(j-a)	Juntion-Ambient			113	°C/W

DLN10



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