

**DLN10**

Silicon Diffused Junction Type

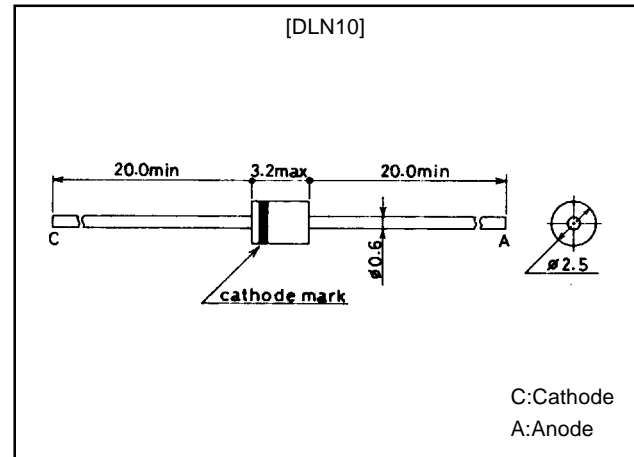
Low-loss Rectifier**Features**

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

Package Dimensions

unit:mm

1264

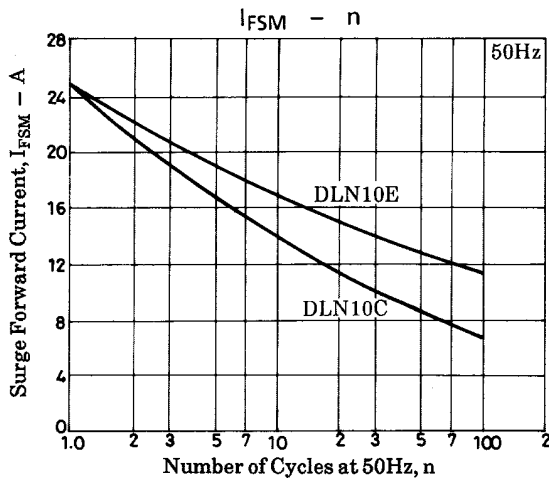
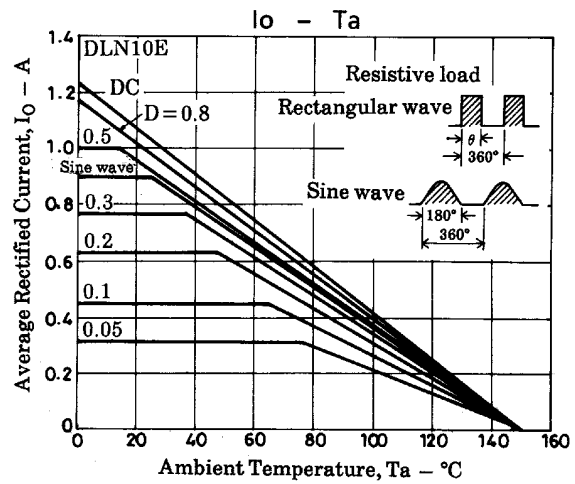
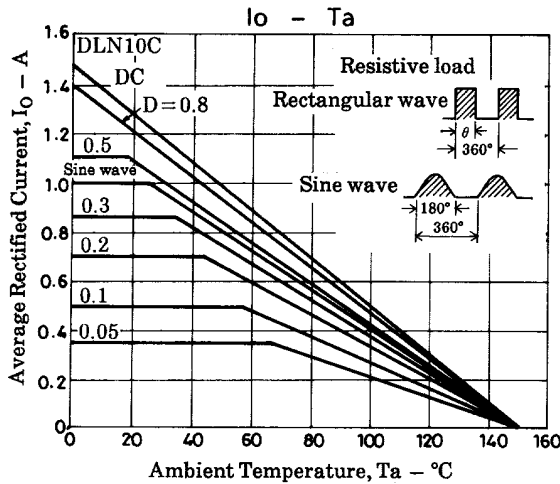
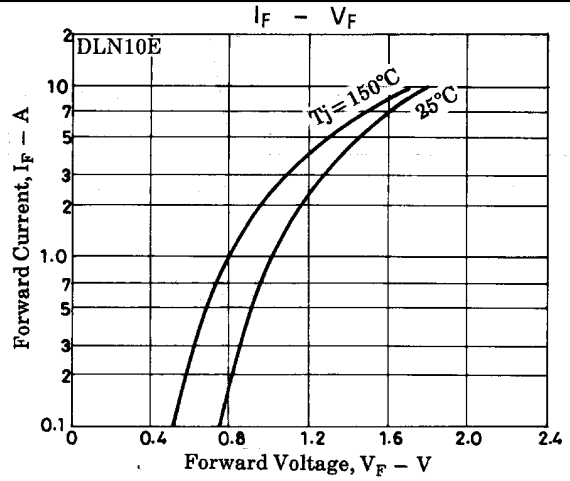
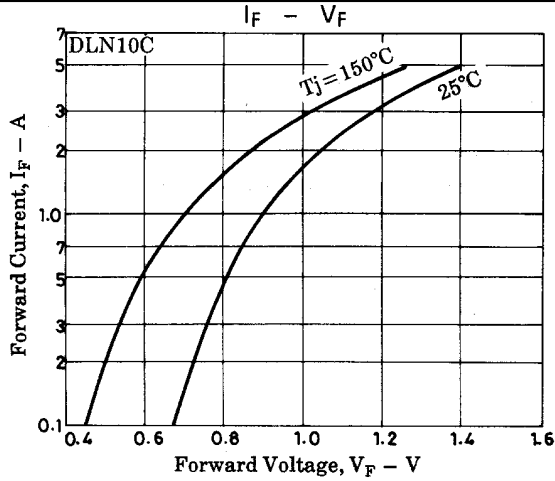
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ C$**

Parameter	Symbol	Conditions	DLN10C	DLN10E	Unit
Peak Reverse Voltage	V_{RM}		200	400	V
Average Rectified Current	I_O	[DLN10C] $T_a=25^\circ C$	1.0		A
		[DLN10E] $T_a=25^\circ C$		0.9	A
		$T_\ell = 137^\circ C$		1.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, non-repetitive, 1 cycle peak value	→	25	A
Junction Temperature	T_j		→	150	$^\circ C$
Storage Temperature	T_{stg}		→	-55 to +150	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
[DLN10C]						
Forward Voltage	V_F	$I_F=1A$			0.98	V
Reverse Current	I_R	$V_R=200V$			10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A, I_R=1A$			35	ns
Thermal Resistance	$R_{th(j-\ell)}$	Junction-Lead			10	$^\circ C/W$
	$R_{th(j-a)}$	Junction-Ambient			113	$^\circ C/W$
[DLN10E]						
Forward Voltage	V_F	$I_F=0.9A$			1.3	V
Reverse Current	I_R	$V_R=400V$			10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A, I_R=1A$			50	ns
Thermal Resistance	$R_{th(j-\ell)}$	Junction-Lead			10	$^\circ C/W$
	$R_{th(j-a)}$	Junction-Ambient			113	$^\circ C/W$

DLN10



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