

SANYO

No.4729

DLN10

Silicon Diffused Junction Type

Low-loss Rectifier

Features

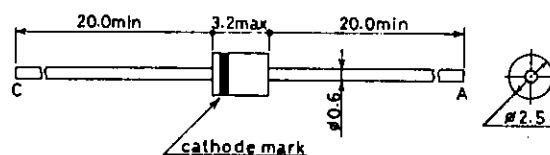
- Fast reverse recovery time, small switching loss.
- Peak reverse voltage : $V_{RM} = 200$ to $400V$.
- Average rectified current : $I_O = 1.0A$

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

			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
		$T_l = 137^\circ C$		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	$^\circ C$

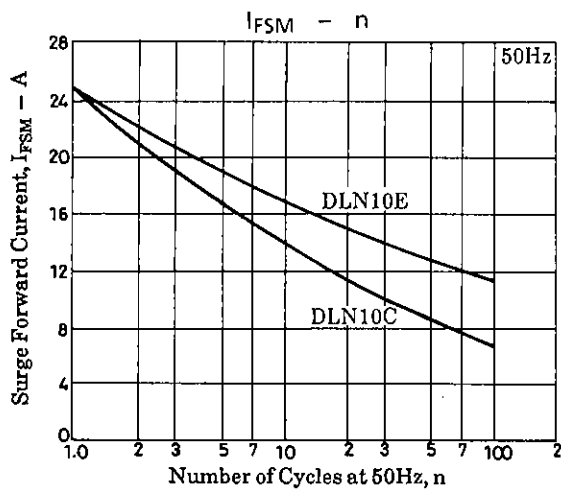
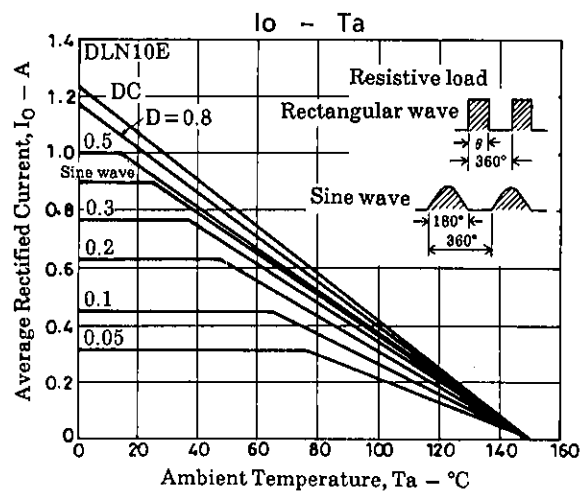
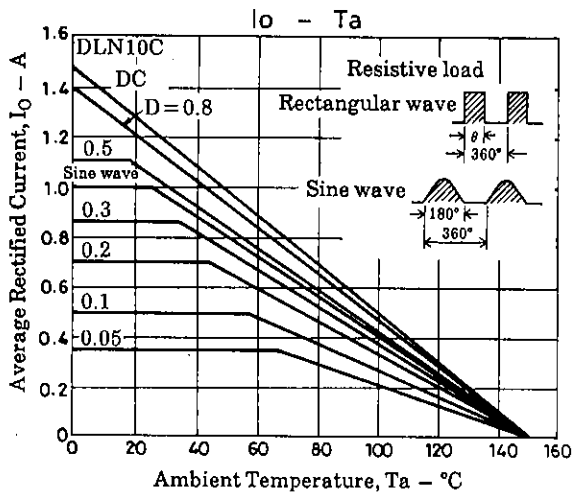
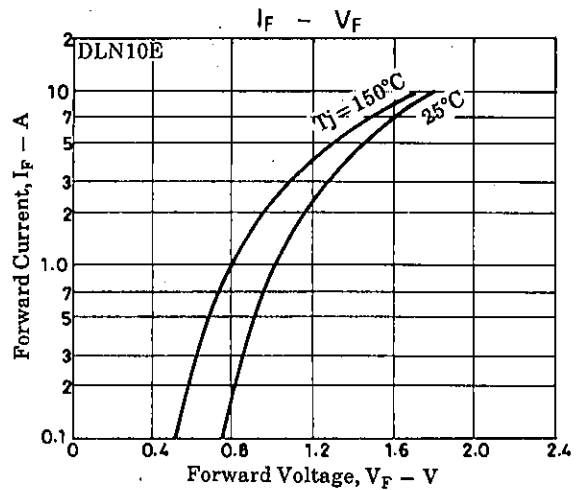
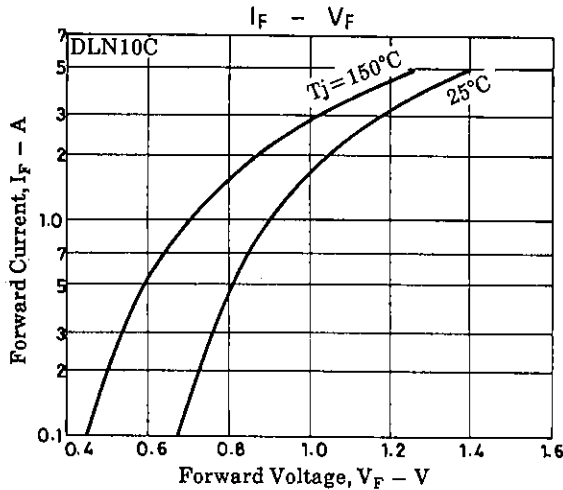
Electrical Characteristics at $T_a = 25^\circ C$

			min	typ	max	unit
[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	$R_{th(j-l)}$	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	$R_{th(j-l)}$	Junction-Lead			10	$^\circ C/W$
	$R_{th(j-a)}$	Junction-Ambient			113	$^\circ C/W$

Package Dimensions 1264
(unit : mm)C : Cathode
A : Anode

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