

<b>SANYO</b>	No.2818A	<b>DLE30</b>
		Silicon Diffused Junction Type
<b>3.0A Ultrahigh-Speed Rectifier</b>		

## Applications

- Switching regulator, high-frequency rectification.

## Features

- Fast reverse recovery time and small switching loss.
- Reverse voltage  $V_{RM}=100$  to  $400V$ .
- Average rectified current:  $I_O=3.0A$ .

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

		DLE30B	DLE30C	DLE30E	unit
Peak Reverse Voltage	$V_{RM}$	100	200	400	V
Average Rectified Current $I_O$	50Hz, resistive load, no fin, $T_a=29^\circ C$	→	→	1.5	A
	50Hz, resistive load, $T_a=25^\circ C$ (With $20 \times 20 \times 1.0$ mm Al fin)	→	→	3.0	A
Surge Forward Current	$I_{FSM}$ 50Hz sine wave, 1 cycle	→	→	60	A
Junction Temperature	$T_j$	→	→	150	$^\circ C$
Storage Temperature	$T_{stg}$	→	→	-40 to +150	$^\circ C$

## Electrical Characteristics [DLE30B,C] at $T_a=25^\circ C$

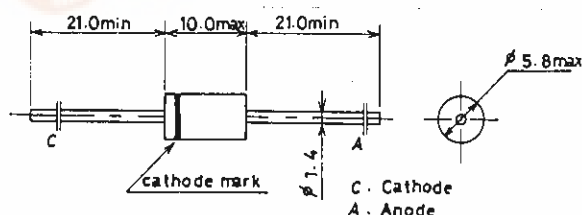
			min	typ	max	unit
Forward Voltage	$V_F$	$I_F=3.0A$			0.98	V
Reverse Current	$I_R$	$V_R$ : Each $V_{RM}$			10	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_{FM}=1A, -di/dt=50A/\mu s$			35	ns
Thermal Resistance (Junction-Ambient)	$R_{th(j-a)}$	No fin, DLE30 only			80	$^\circ C/W$

## Electrical Characteristics [DLE30E] at $T_a=25^\circ C$

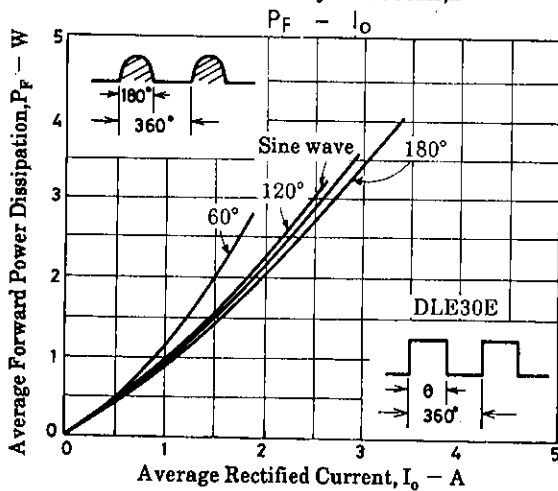
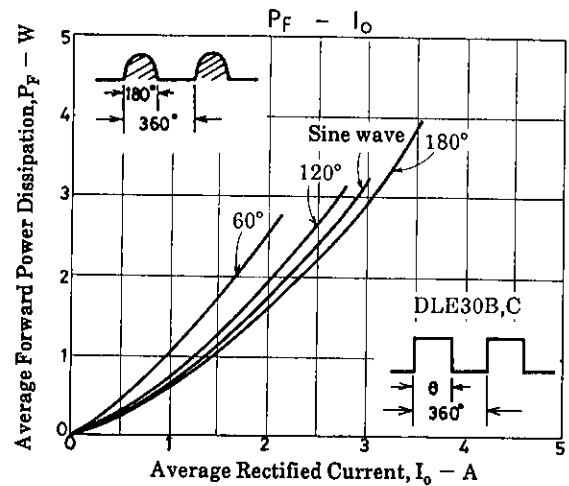
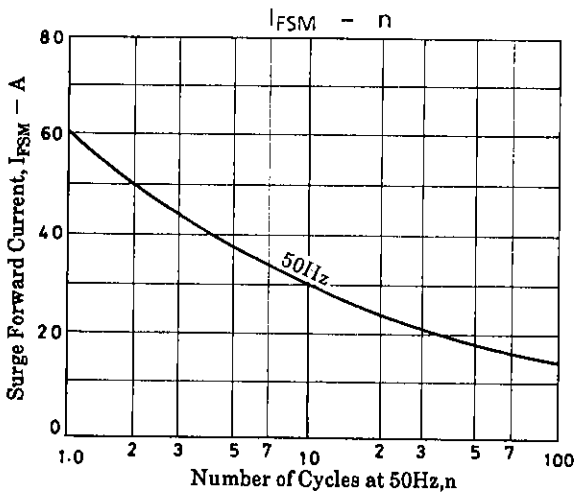
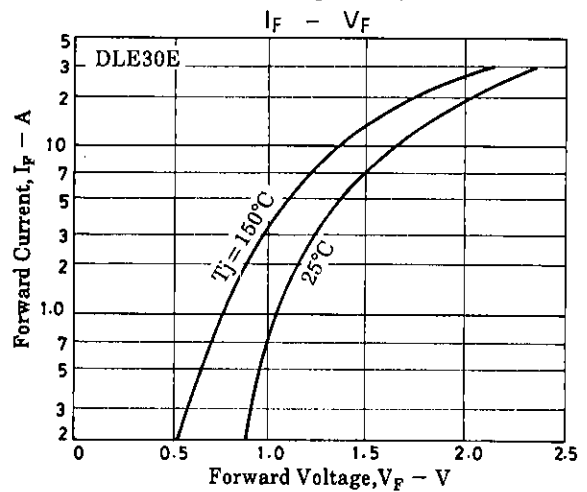
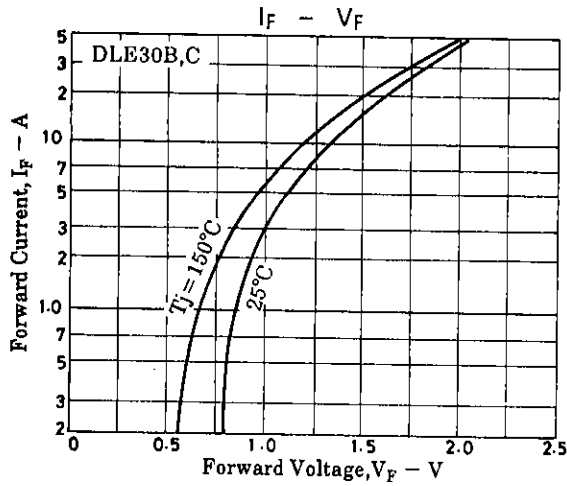
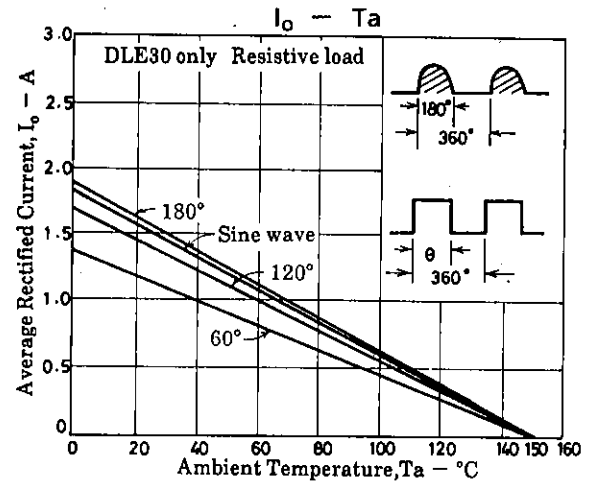
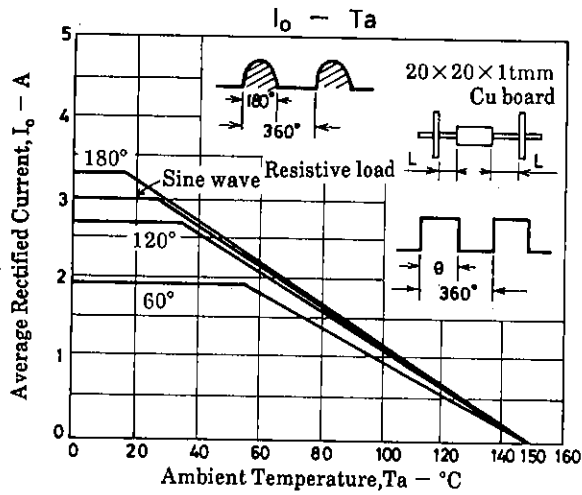
			min	typ	max	unit
Forward Voltage	$V_F$	$I_F=1.0A$			1.25	V
Reverse Current	$I_R$	$V_{RM}=400V$			20	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_{FM}=1A, -di/dt=50A/\mu s$			30	ns
Thermal Resistance (Junction-Ambient)	$R_{th(j-a)}$	No fin, DLE30 only			80	$^\circ C/W$

Note) The Al fin is mounted on each lead at the point 5mm of the resin.

## Package Dimensions 1193 (unit: mm)



# DLE30



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