Ordering number: EN2818A

SANYO

No.2818A

DLE30

Silicon Diffused Junction Type

3.0A Ultrahigh-Speed Rectifier

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.

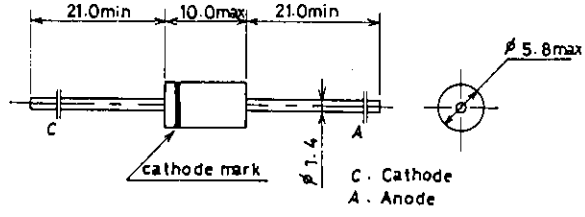
Absolute Maximum Ratings at Ta = 25°C			DLE30B	DLE30C	DLE30E	unit
Peak Reverse Voltage	V_{RM}		100	200	400	V
Average Rectified Current	I_O	50Hz, resistive load, no fin, Ta = 29°C	→	→	1.5	A
		50Hz, resistive load, Ta = 25°C (With 20×20×1.0tmm Al fin)	→	→	3.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	→	60	A
Junction Temperature	Tj		→	→	150	°C
Storage Temperature	Tstg		→	−40 to +150		°C

Electrical Characteristics [DLE30B,C] at Ta = 25°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	μA
Reverse Recovery Time	trr	I_{FM} = 1A, −di/dt = 50A/μs			35	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)	No fin, DLE30 only			80	°C/W

Electrical Characteristics [DLE30E] at Ta = 25°C			min	typ	max	unit
Forward Voltage	V_F	I_F = 1.0A			1.25	V
Reverse Current	I_R	V_{RM} = 400V			20	μA
Reverse Recovery Time	trr	I_{FM} = 1A, −di/dt = 50A/μs			30	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)	No fin, DLE30 only			80	°C/W

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

Package Dimensions 1193
(unit : mm)



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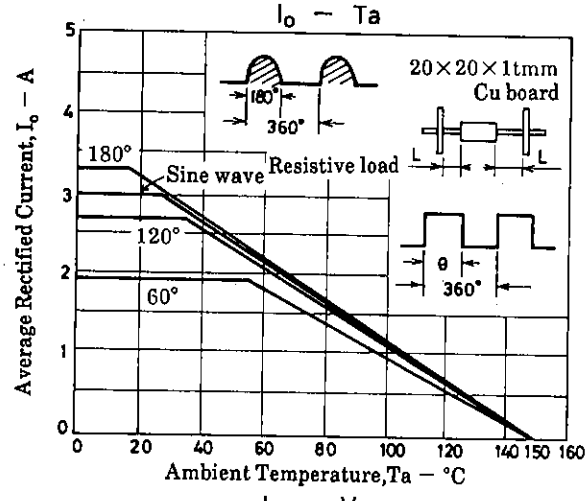
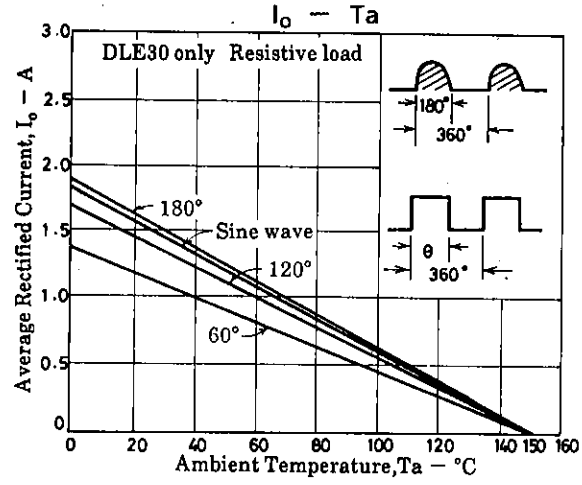
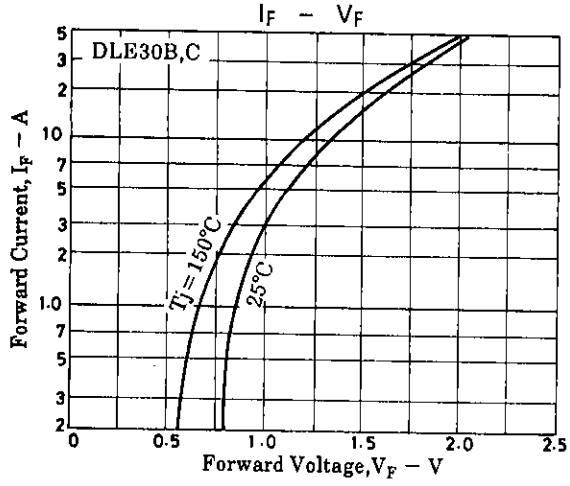
I_O – Ta



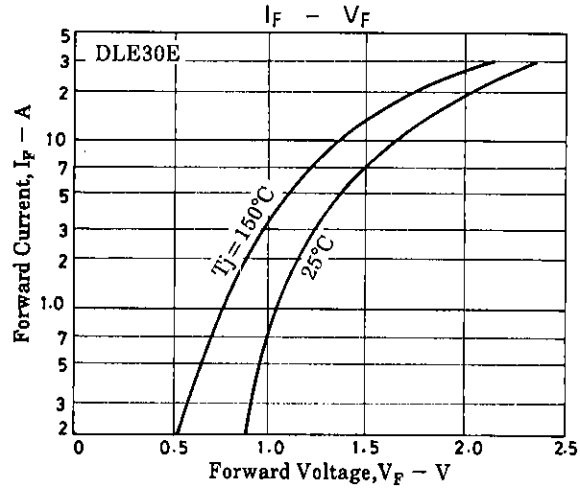
I_O – Ta



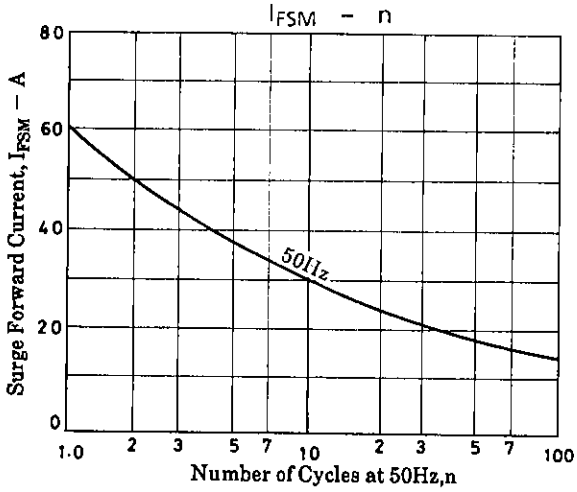
I_F – V_F



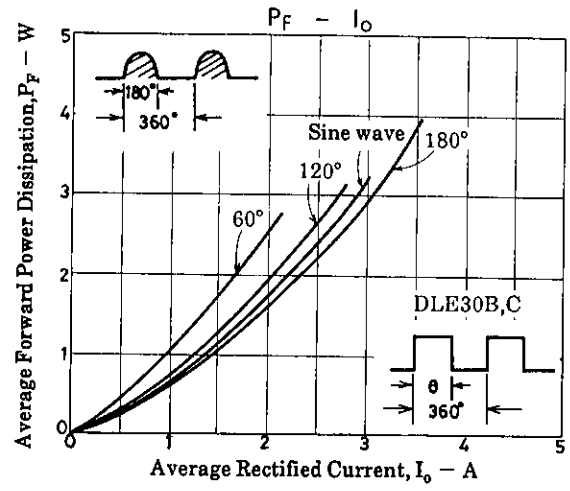
I_F – V_F



I_{FSM} – n



P_F – I_O



P_F – I_O