

**SANYO**

No.2792A

**DLM10**

Silicon Diffused Junction Type

**1.0A 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 :  $I_O=1.0A$ .

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

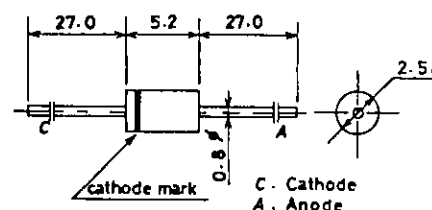
			DLM10B	DLM10C	DLM10E	unit
Peak Reverse Voltage	$V_{RM}$		100	200	400	V
Average Rectified Current	$I_O$	50Hz sine wave, $T_a=57^\circ C$ , resistive load ( $L=8mm$ , print land $10 \times 10mm$ )	→	→	1.0	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	→	→	30	A
Junction Temperature	$T_j$		→	→	150	$^\circ C$
Storage Temperature	$T_{stg}$		→	→	-40 to +150	$^\circ C$

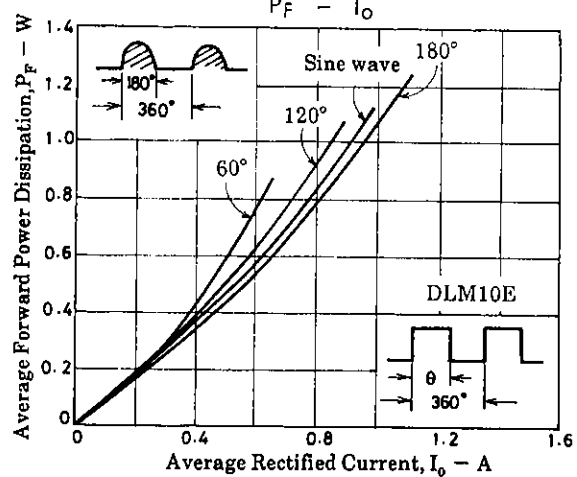
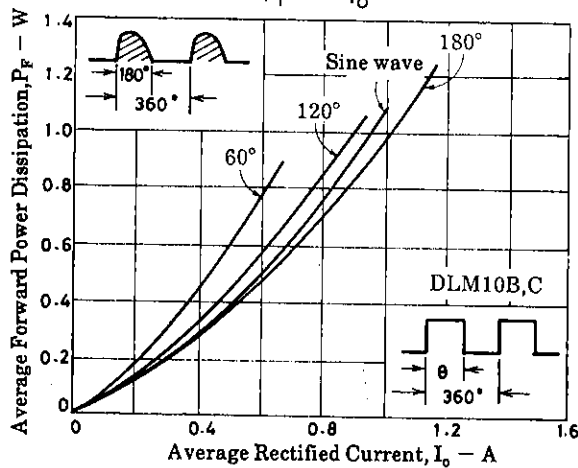
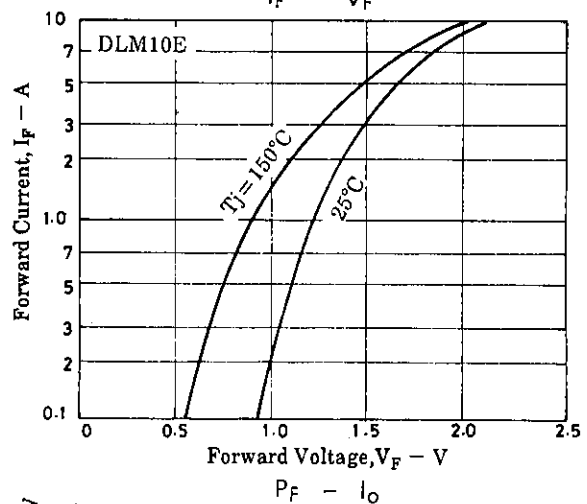
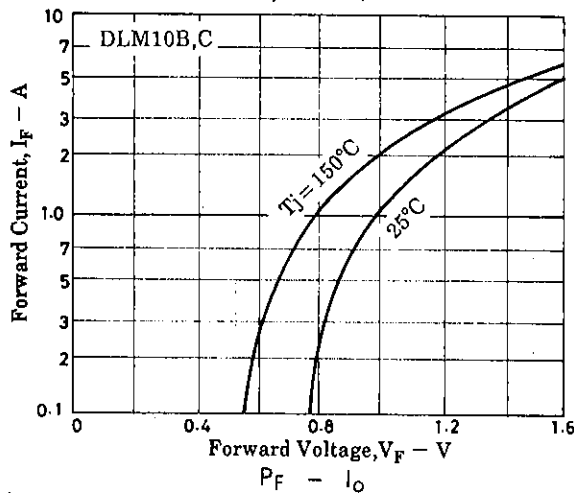
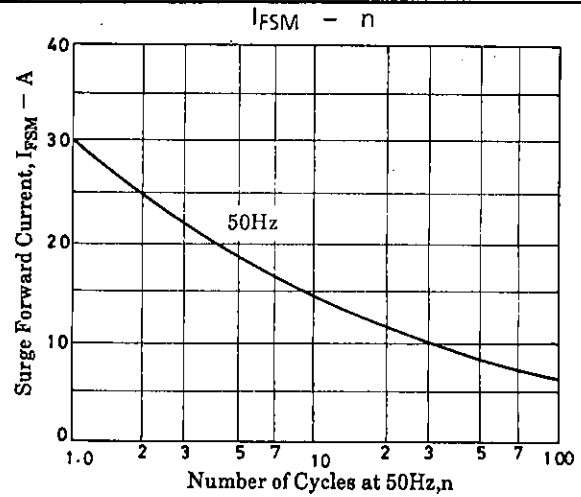
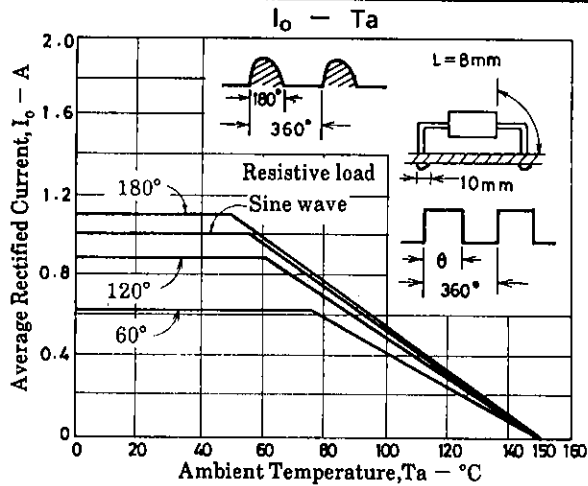
**Electrical Characteristics [DLM10B,C] at  $T_a=25^\circ C$** 

			min	typ	max	unit
Forward Voltage	$V_F$	$I_F=1.0A$			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 heat sink, DLM10 only			115	$^\circ C/W$

**Electrical Characteristics [DLM10E] 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 heat sink, DLM10 only			115	$^\circ C/W$

**Package Dimensions 1190**  
(unit : mm)



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