

12A FAST RECOVERY DIODE MODULE

12CH1FM~12CH4FM

12CH1FM~12CH4FM are isolated type fast recovery diode centertap module of which output current is 12A.

FEATURES

- * Fast recovery time.
- * High reliability (Glass passivation).
- * Isolation type.
- * Easy installation.

APPLICATIONS

- * Switching Regulators
- * DC-DC Convertors

MAXIMUM RATINGS

Items	Symbols	12CH1FM	12CH2FM	12CH3FM	12CH4FM	Units	Notes
Repetitive Peak Reverse Voltage	V_{RRM}	100	200	300	400	V	
Non Repetitive Peak Reverse Voltage	V_{RSM}	150	250	350	450	V	
Output Current	I_o	12 ($T_c = 121^\circ\text{C}$, Square wave Duty = 50 %)				A	
Surge Forward Current	I_{FSM}	60				A	
Junction Temperature	T_j	-40~150				$^\circ\text{C}$	
Storage Temperature	T_{stg}	-40~150				$^\circ\text{C}$	
Isolation Voltage	V_{isol}	AC 1500				V	

ELECTRICAL CHARACTERISTICS ($T_j = 25^\circ\text{C}$)

Items	Symbols	Conditions	Max.	Units	Notes
Repetitive Peak Reverse Current	I_{RRM}	$T_j = 150^\circ\text{C}$, $V_{RM} = V_{RRM}$	8.0	mA	
Forward Voltage	V_{FM}	$I_{FM} = 6\text{A}$	1.2	V	
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	4.0	$^\circ\text{C/W}$	
Reverse Recovery Time	t_{rr}	$I_{FM} = 0.4\text{A}$	350	nS	

OUTLINE DRAWING (UNIT: mm)

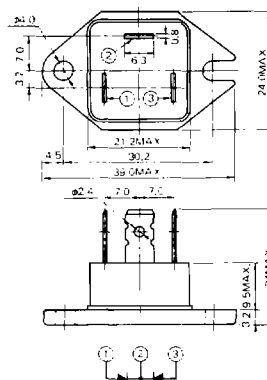


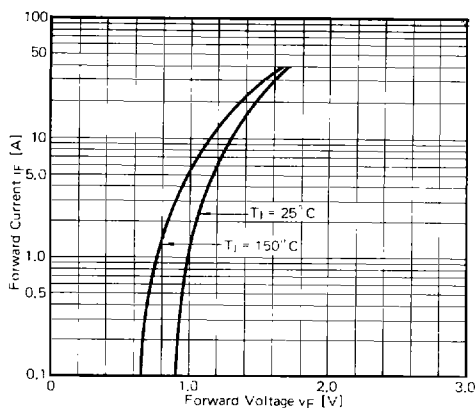
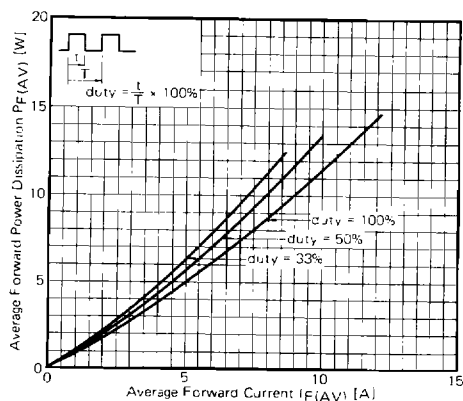
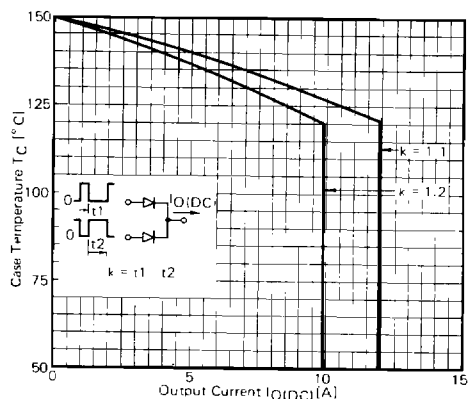
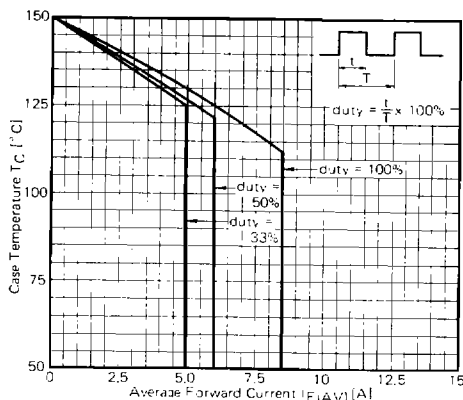
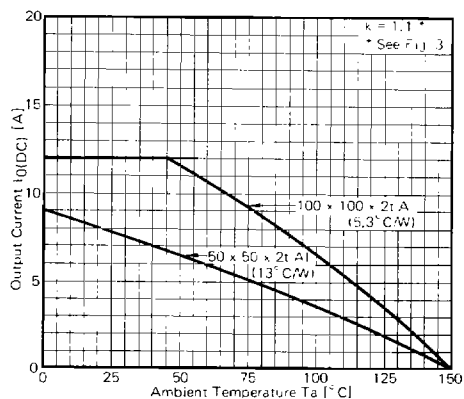
Fig. 1 $v_F - i_F$ Characteristics (per Cell)Fig. 2 $P_F(AV) - I_F(AV)$ Characteristics (per Cell)Fig. 3 $I_O(DC) - T_C$ RatingsFig. 4 $I_F(AV) - T_C$ Ratings (per Cell)Fig. 5 $I_O(DC) - T_a$ Ratings

Fig. 6 Transient Thermal Impedance (per Cell)

