

SANYO

No.2375

DFC15T

Diffused Junction Type Silicon Diode

1.5A Power Rectifier

Features

- High-speed switching use
- Plastic molded structure
- Reverse recovery time $t_{rr} = 0.15\mu s$ max (B,C,E,G)
 $t_{rr} = 0.3\mu s$ max (J,L,N,R)
- Peak reverse voltage $V_{RM} = -100$ to $-1500V$
- Average rectified current $I_O = 1.5A$

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

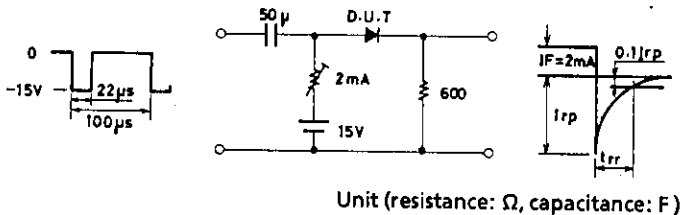
		DFC15TB	DFC15TC	DFC15TE	DFC15TG	unit
Peak Reverse Voltage	V_{RM}	-100	-200	-400	-600	V
Average Rectified Current	I_O	Ta = 35°C		→	→	1.5 A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		→	→	80 A
Junction Temperature	T_j	→	→	→	→	150 °C
Storage Temperature	T_{stg}	→	→	→	-40 to +150	°C

		DFC15TJ	DFC15TL	DFC15TN	DFC15TR	unit
Peak Reverse Voltage	V_{RM}	-800	-1000	-1200	-1500	V
Average Rectified Current	I_O	Ta = 25°C		→	→	1.5 A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		→	→	45 A
Junction Temperature	T_j	→	→	→	→	125 °C
Storage Temperature	T_{stg}	→	→	→	-40 to +150	°C

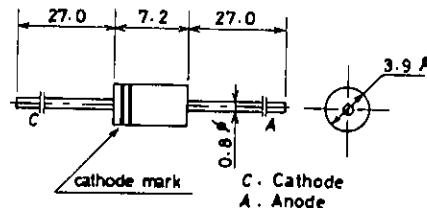
Electrical Characteristics at $T_a = 25^\circ C$

			min	typ	max	unit
Forward Voltage	V_F	$I_F = 1.5A$ (B,C,E,G)			1.2	V
		$I_F = 1.5A$ (J,L,N,R)			1.5	V
Reverse Current	I_R	V_R : At each V_{RM}			-10	μA
Reverse Recovery Time	t_{rr}	$I_F = 2mA, V_R = -15V$ (B,C,E,G)			0.15	μs
		$I_F = 2mA, V_R = -15V$ (J,L,N,R)			0.3	μs

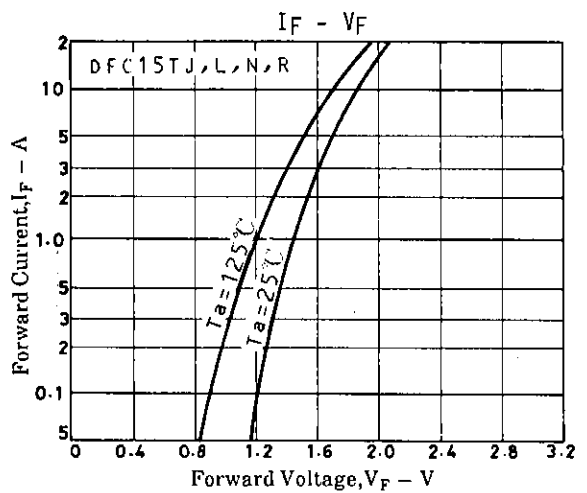
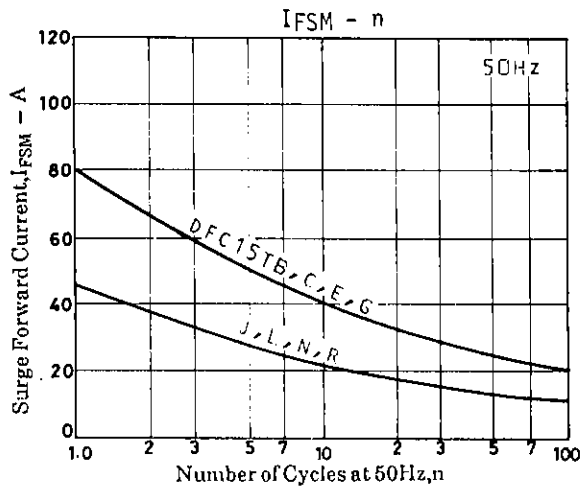
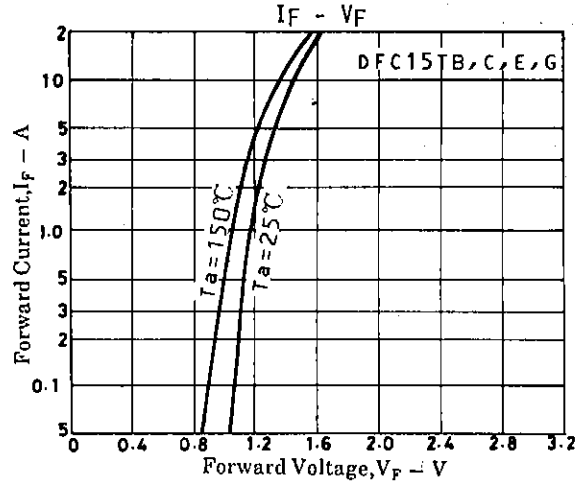
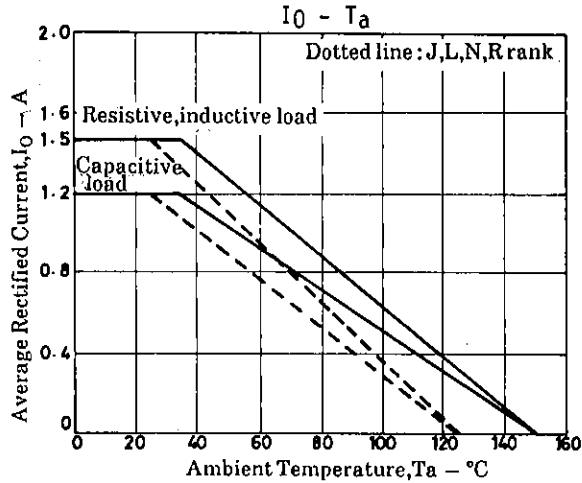
Reverse Recovery Time Test Circuit



Package Dimensions (unit: mm) 1173



DFC15T



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