

DFC15T

Diffused Junction Type Silicon Diode

1.5A Power Rectifier

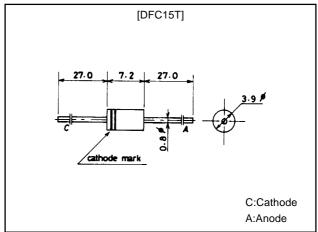
Features

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

Package Dimensions

unit:mm

1173



Specifications

Absolute Maximum Ratings at Ta = 25°C

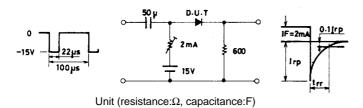
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Parameter	Symbol	Conditions	DFC15TB	DFC15TC	DFC15TE	DFC15TG	Unit
Peak Reverse Voltage	V _{RM}		100	200	400	600	V
Average Recitified Current	IO	Ta=35°C	\rightarrow	\rightarrow	\rightarrow	1.5	Α
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	\rightarrow	\rightarrow	\rightarrow	80	Α
Junction Temperature	Tj		\rightarrow	\rightarrow	\rightarrow	150	°C
Storage Temperature	Tstg		\rightarrow	\rightarrow	\rightarrow	-40 to +150	°C

Parameter	Symbol	Conditions	DFC15TJ	DFC15TL	DFC15TN	DFC15TR	Unit
Peak Reverse Voltage	V _{RM}		800	1000	1200	1500	V
Average Recitified Current	Io	Ta=25°C	\rightarrow	\rightarrow	\rightarrow	1.5	Α
Surge Forward Current	I _{FSM}	50Hz sine wave, 1cycle	\rightarrow	\rightarrow	\rightarrow	45	Α
Junction Temperature	Tj		\rightarrow	\rightarrow	\rightarrow	125	°C
Storage Temperature	Tstg		\rightarrow	\rightarrow	\rightarrow	-40 to +150	°C

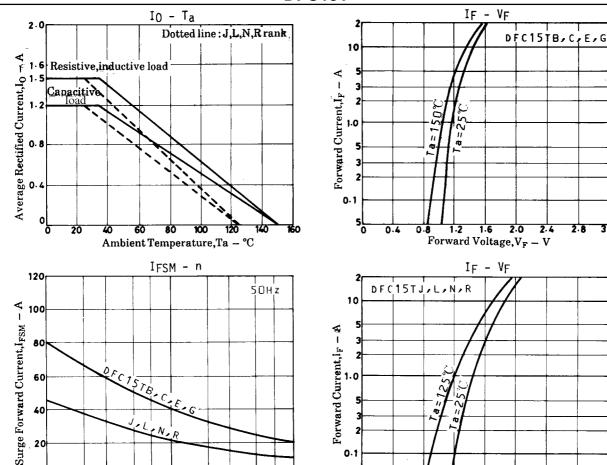
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions		typ	max	Offic
Forward Voltage	٧F	I _F =1.5A (B, C, E, G)			1.2	V
		I _F =1.5A (J, L, N, R)			1.5	V
Reverse Current	IR	V _R :At each V _{RM}			-10	μΑ
Reverse Recovery Time	trr	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



SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquarters TOKYO OFFICE, Tokyo Bldg., 1-10, Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN



1.0

10 Number of Cycles at 50Hz,n

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Forward Voltage, V_F + V

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