

DFC15T

Diffused Junction Type Silicon Diode

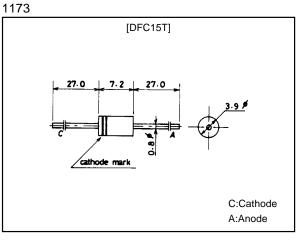
1.5A Power Rectifier

Features

- · High-speed switching use.
- · Plastic molded structure.
- \cdot Reverse recovery time trr=0.15 μs max (B, C, E, G). trr=0.3 μs max (J, L, N, R).
- Peak reverse voltage: V_{RM} =100 to 1500V
- Average Rectified current $I_0=1.5A$

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

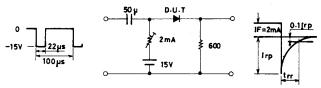
Parameter	Symbol	Conditions	DFC15TB	DFC15TC	DFC15TE	DFC15TG	Unit
Peak Reverse Voltage	V _{RM}		100	200	400	600	V
Average Recitified Current	l0	Ta=35°C	\rightarrow	\rightarrow	\rightarrow	1.5	А
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	\rightarrow	\rightarrow	\rightarrow	80	А
Junction Temperature	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	lo	Ta=25°C	\rightarrow	\rightarrow	\rightarrow	1.5	А
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	\rightarrow	\rightarrow	\rightarrow	45	А
Junction Temperature	Tj		\rightarrow	\rightarrow	\rightarrow	125	°C
Storage Temperature	Tstg		\rightarrow	\rightarrow	\rightarrow	-40 to +150	°C

Electrical Characteristics at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions		typ	max	Offic
Forward Voltage	٧ _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	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

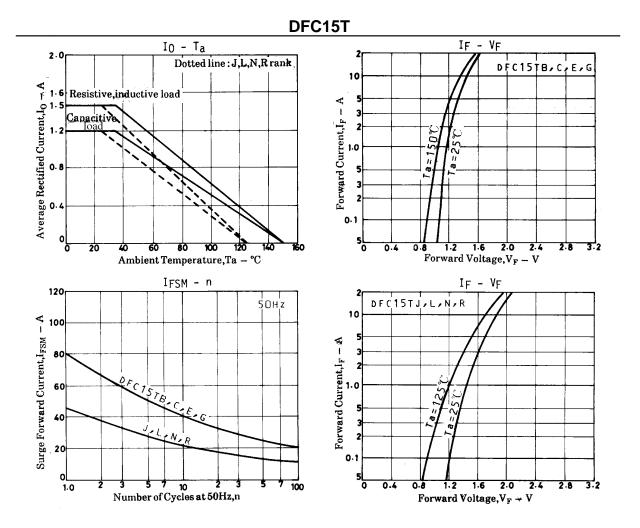
Reverse Recovery Time Test Circuit

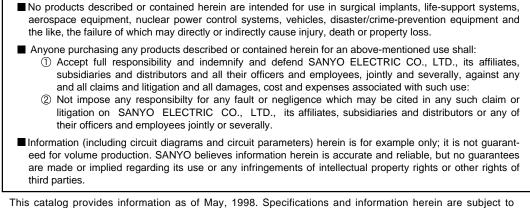


Unit (resistance:Ω, capacitance:F)

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