

**DFB20T**

Diffused Junction Type Silicon Diode

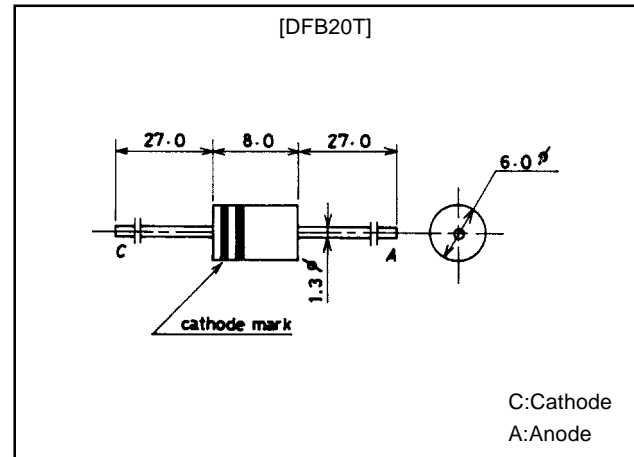
2.0A Power Rectifier**Features**

- High-speed switching use.
- Reverse recovery time $t_{rr}=0.15\mu\text{s}$ max (B, C, E, G).
 $t_{rr}=0.3\mu\text{s}$ max (J, L).
- Peak reverse voltage: $V_{RM}=100$ to 1000V
- Average Rectified current $I_O=2.0\text{A}$

Package Dimensions

unit:mm

1177

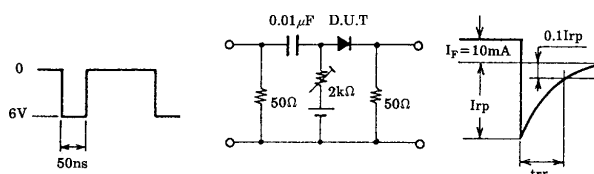
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Conditions	DFB20TB	DFB20TC	DFB20TE	DFB20TG	Unit
Peak Reverse Voltage	V_{RM}		100	200	400	600	V
Average Rectified Current	I_O	$T_a=40^\circ\text{C}$	→	→	→	2.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	→	→	120	A
Junction Temperature	T_j		→	→	→	150	$^\circ\text{C}$
Storage Temperature	T_{stg}		→	→	→	-40 to +150	$^\circ\text{C}$

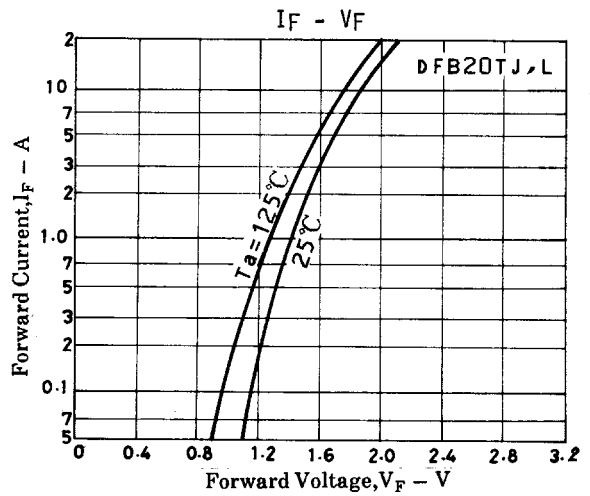
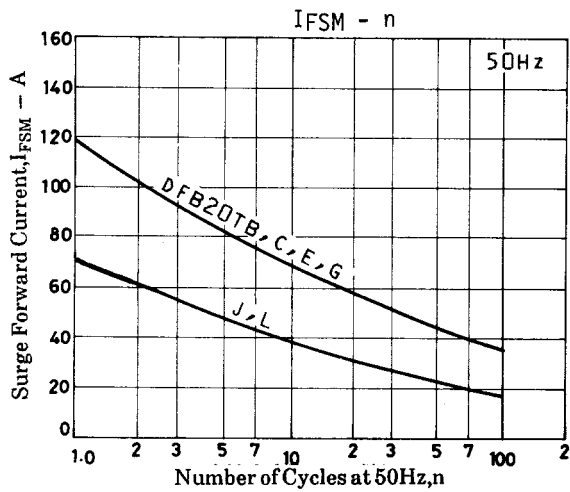
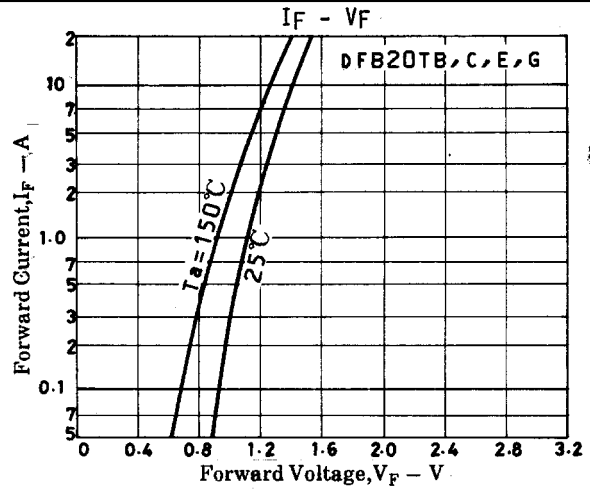
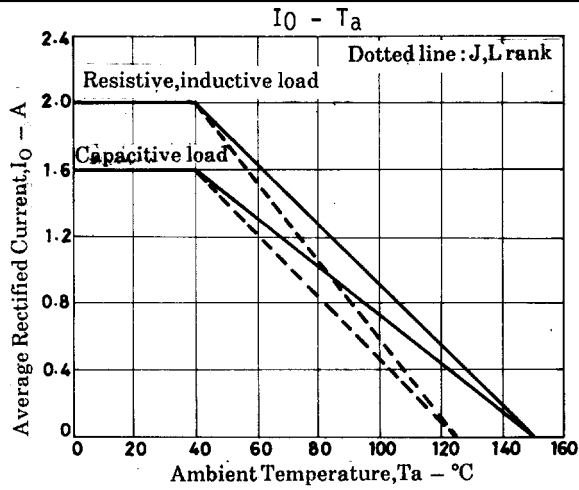
Parameter	Symbol	Conditions	DFB20TJ	DFB20TL		Unit
Peak Reverse Voltage	V_{RM}		800	1000		V
Average Rectified Current	I_O	$T_a=40^\circ\text{C}$	→	2.0		A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	→	70		A
Junction Temperature	T_j		→	125		$^\circ\text{C}$
Storage Temperature	T_{stg}		→	-40 to +150		$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=2.0\text{A}$ (B, C, E, G)			1.2	V
		$I_F=2.0\text{A}$ (J, L)			1.5	V
Reverse Current	I_R	V_R : At each V_{RM}			10	μA
Reverse Recovery Time	t_{rr}	$I_F=2\text{mA}$, $V_R=15\text{V}$ (B, C, E, G)			0.15	μs
		$I_F=2\text{mA}$, $V_R=15\text{V}$ (J, L)			0.3	μs

Reverse Recovery Time Test CircuitUnit (resistance: Ω , capacitance:F)

DFB20T



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