



# DSF10T

Diffused Junction Type Silicon Diode

## 1.0A Power Rectifier

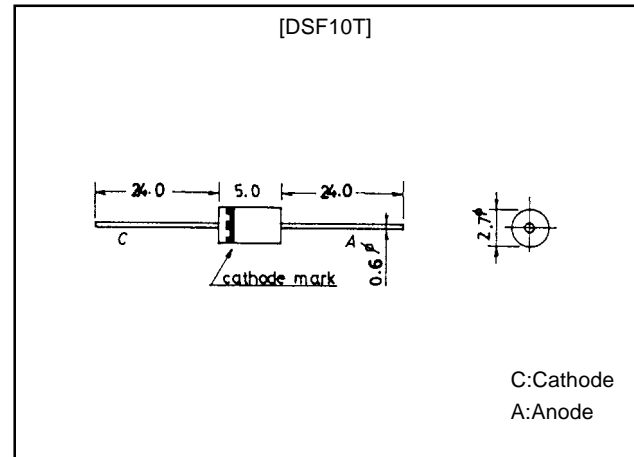
### Features

- Meets automatic mounting requirements.
- Plastic molded structure (small size).
- Peak reverse voltage :  $V_{RM}=100$  to  $1000V$ .
- Average rectified current :  $I_O=1.0A$ .

### Package Dimensions

unit:mm

1004A



### Specifications

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

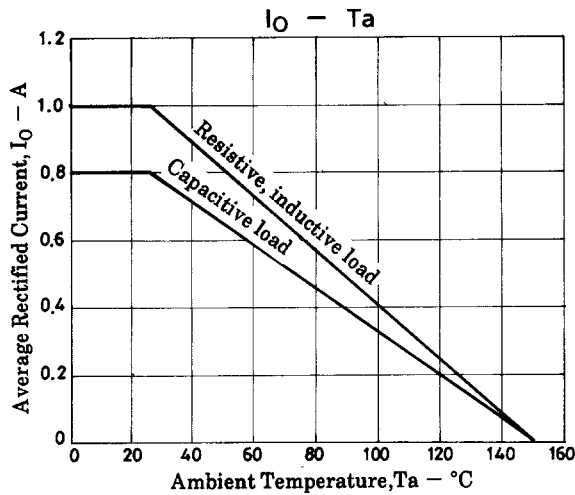
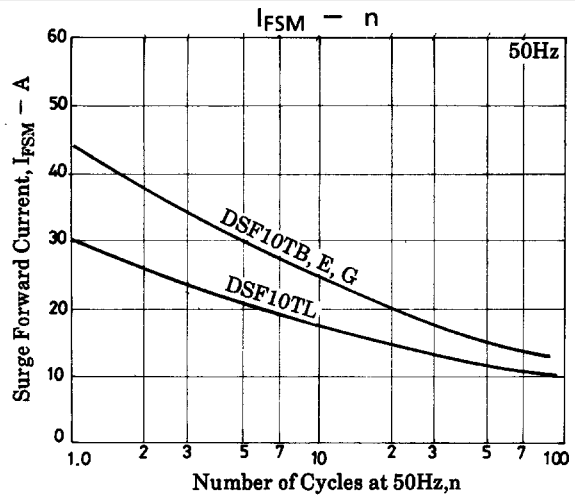
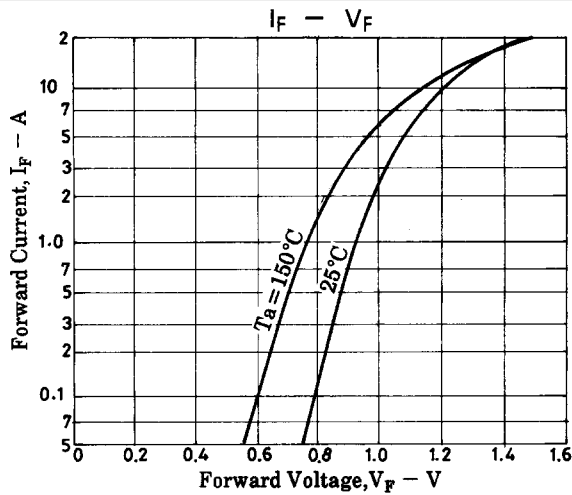
Parameter	Symbol	Conditions	DSF10TB	DSF10TE	DSF10TG	Unit
Peak Reverse Voltage	$V_{RM}$		100	400	600	V
Average Rectified Current	$I_O$	$T_a=25^\circ C$	→	→	1.0	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	→	→	45	A
Junction Temperature	$T_j$		→	→	150	$^\circ C$
Storage Temperature	$T_{stg}$		→	→	-40 to +150	$^\circ C$

Parameter	Symbol	Conditions			DSF10TL	Unit
Peak Reverse Voltage	$V_{RM}$				1000	V
Average Rectified Current	$I_O$	$T_a=25^\circ C$			1.0	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle			30	A
Junction Temperature	$T_j$				150	$^\circ C$
Storage Temperature	$T_{stg}$				-40 to +150	$^\circ C$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=1.0A$			1.0	V
Reverse Current	$I_R$	$V_R$ :At each $V_{RM}$			10	$\mu A$

# DSF10T



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