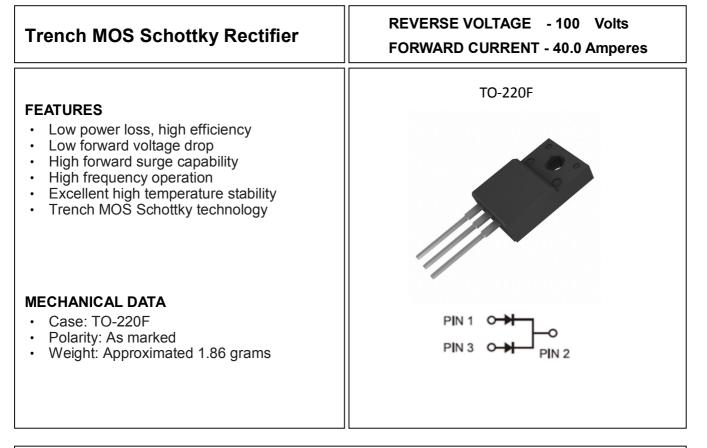


S40U100FCT



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load. derate current by 20%

Characteristics	Symbol	Value		Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100		V
RMS Reverse Voltage	V_{RMS}	70		V
Forward Voltage Drop		Тур.	Max.	
I _F =10A (T _J =25℃)		0.54	-	
I _F =10A (T _J =125℃)	V _F	0.49	-	V
I _F =20 A (T _J =25°C)		0.67	0.70	
I _F =20 A (T _J =125℃)		0.60	0.62	
Maximum Reverse Current at Rated V _{RRM}		Тур.	Max.	
TJ=22°C	I _R	30	200	μA
T _J =125°C		20	45	mA
Maximum Average Forward Rectified Current				
Total device	Ι _Ο	40		Α
Per diode		20		
Peak Forward Surge Current,				
8.3 ms Single Half Sine-wave	I _{FSM}	300		Α
Superimposed on Rated Load (JEDEC method)				
Peak Repetitive Reverse Current at tp=2 µs, 1 kHz,	I _{RRM}	1.0		Α
Operating and StorageTemperature Range	$T_{J,} T_{STG}$	-65 to +150		°C



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Rating and Characteristic Curves

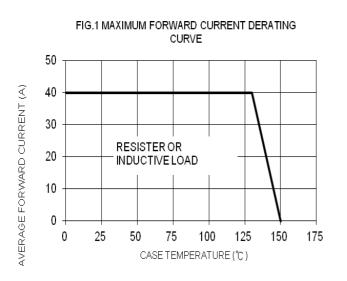
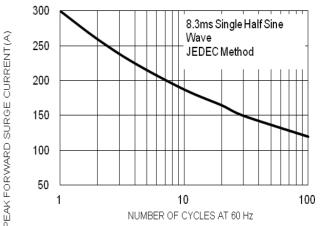


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG





INSTANTANEOUS FORWARD CURRENT (A) TA=150°C 10 1 TA=25℃ 0.1 0.01 0 0.2 0.1 0.3 0.4 0.5 0.6 0.7 0.8 FORWARD VOLTAGE (V)

FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

