Elektronische Bauelemente

SF08S60

Voltage 600 V

8 Amp Low Loss Superfast Rectifier

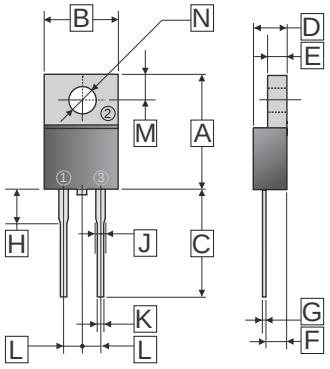
RoHS Compliant Product

A suffix of "-C" specifies halogen free

FEATURES

- High Surge Capacity
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- High-Switching Speed 30 Nanosecond Recovery Time
- Low Forward Voltage, High Current Capability
- Low Stored Charge Majority Carrier Conduction
- Plastic Material Used Carries Underwriters Laboratory Flammability Classification 94V-O

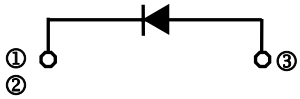
TO-220A



Dimensions in millimeters

PACKAGING INFORMATION

Weight: 1.933 grams (approximate)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	-	15.10	H	-	4.00
B	-	10.50	J	-	1.30
C	14.0	-	K	-	1.00
D	3.05 TYP.		L	2.54 TYP.	
E	1.27 TYP.		M	2.75 TYP.	
F	-	-	N	ϕ 3.6	ϕ 4.0
G	-	-			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SF08S60	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}		V
DC Blocking Voltage	V_R	480	V
Average Rectifier Forward Current	$I_{F(AV)}$	8	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I_{FSM}	120	A
Max. Instantaneous Forward Voltage (I_F= 8 A, T_C=25°C) Note 1	V_F	2.4	V
Max. Instantaneous Reverse Current Note 1 (Rated DC Voltage, T_C=25°C) (Rated DC Voltage, T_C=100°C)	I_R	5 500	μA
Reverse Recovery Time (I_F = 0.5A,V_R = 30V,dI_F / dt = 100 A / μs)	T_{RR}	30	nS
Typical Junction Capacitance (Reverse Voltage of 4V & f=1MHz)	C_P	70	pF
Thermal Resistance	$R_{\theta JC}$	3.0	°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65~+150	°C

Note: 1. Pulse test: 300us pulse width, 1% duty cycle

Elektronische Bauelemente

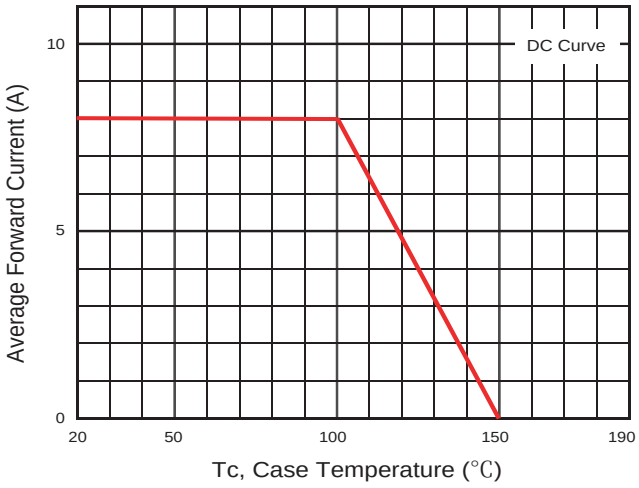
SF08S60

Voltage 600 V

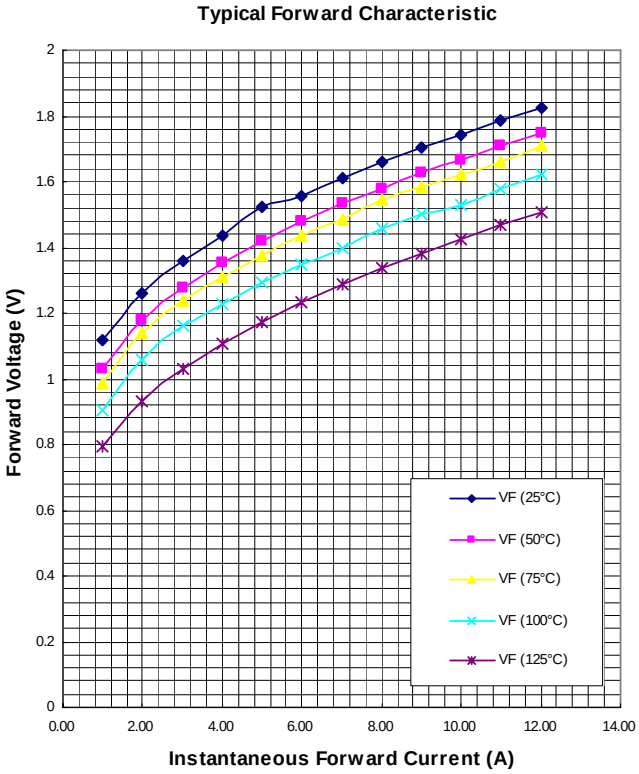
8 Amp Low Loss Ultrafast Rectifier

RATINGS AND CHARACTERISTIC CURVES (SF08S60F)

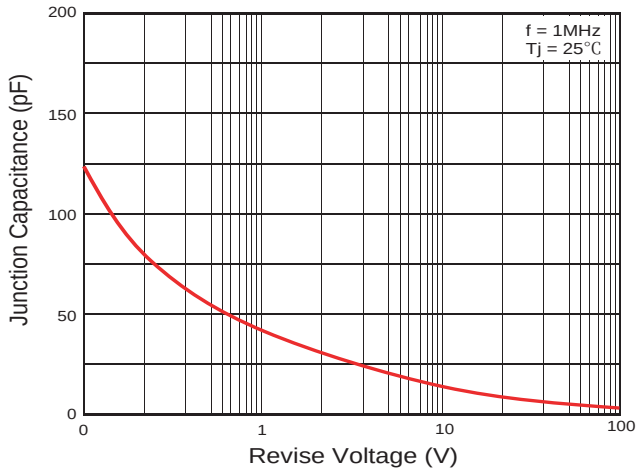
Typical Forward Current Derating Curve



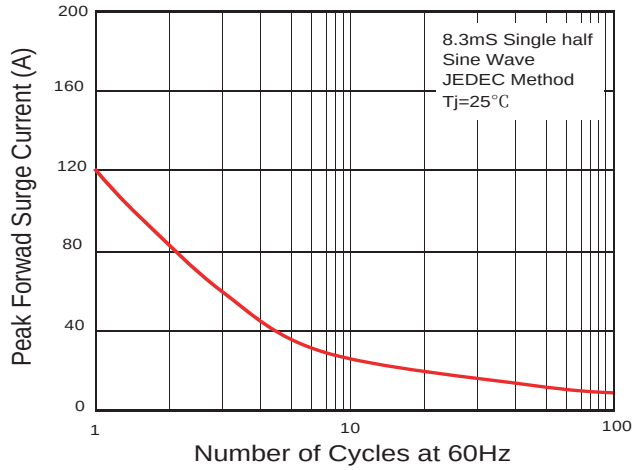
Typical Forward Characteristic



Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



IR Electronic Characteristic Curve

