

RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

- Soft Reverse Recovery Diodes
- Low Profile Package
- Ideal for Automated Placement
- Low Reverse Current

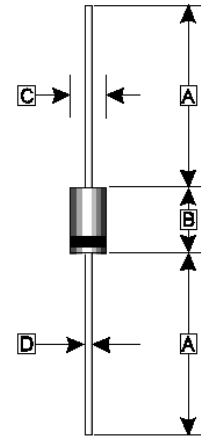
MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end
- Mounting position: Any

ORDER INFORMATION

Part Number	Type
SF04U60E-C	Lead (Pb)-free and Halogen-free

DO-27(DO-201)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.50
C	4.80	5.60
D	1.10	1.30

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

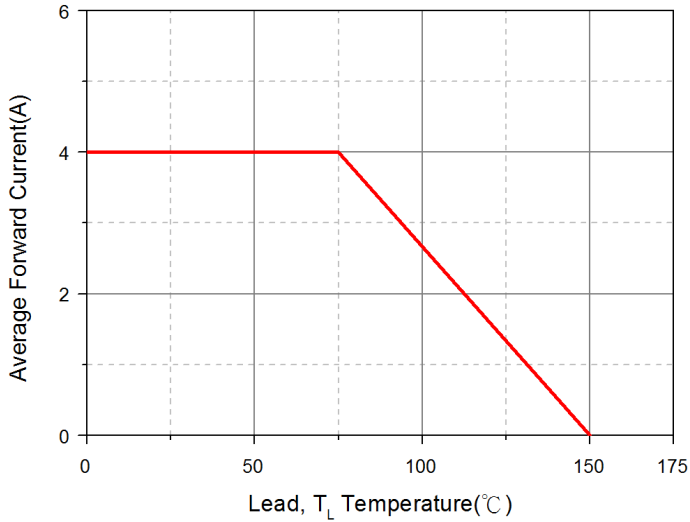
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	600	V
Average Rectifier Forward Current	$I_{F(AV)}$	4	A
Non-Repetitive Peak Surge Current @Surge applied at rate load conditions half-wave, single phase, 60Hz	I_{FSM}	50	A
Max. Instantaneous Forward Voltage @ $I_F=4A$	$T_J=25^\circ C$	1.3	V
	$T_J=125^\circ C$	1.25	
Max. Instantaneous Reverse Current ¹	$T_J=25^\circ C$	0.1	mA
	$T_J=125^\circ C$	1	
Reverse Recovery Time ²	T_{RR}	75	nS
Typical Junction Capacitance ³	C_J	14	pF
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	25	°C/W
Thermal Resistance from Junction-Lead	$R_{\theta JL}$	14	
Operating Junction & Storage Temperature Range	T_J, T_{STG}	150, -55~150	°C

Notes:

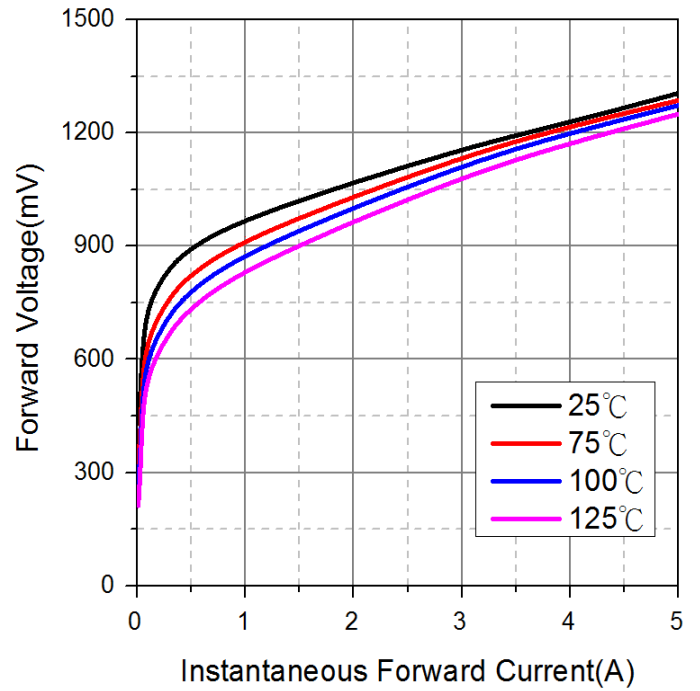
1. Pulse Test: Pulse Width=300µs, Duty Cycle ≤ 2%.
2. $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$.
3. Measured at 1MHz and applied reverse voltage of 5V D.C.

RATINGS AND CHARACTERISTIC CURVES

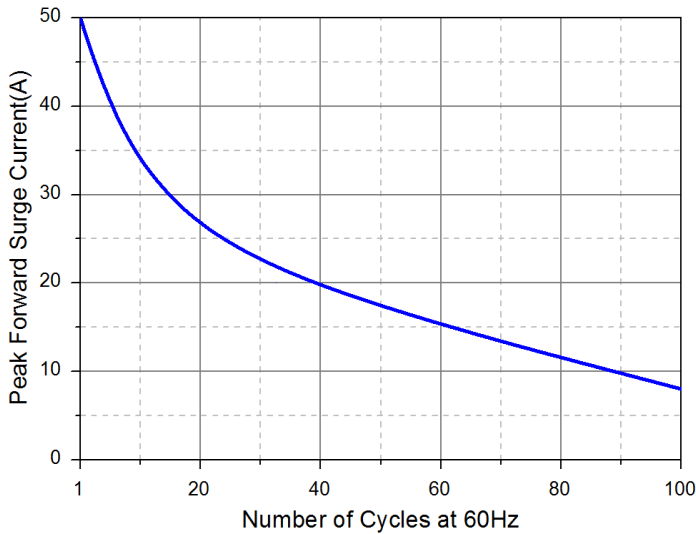
Typical Forward Current Derating Curve



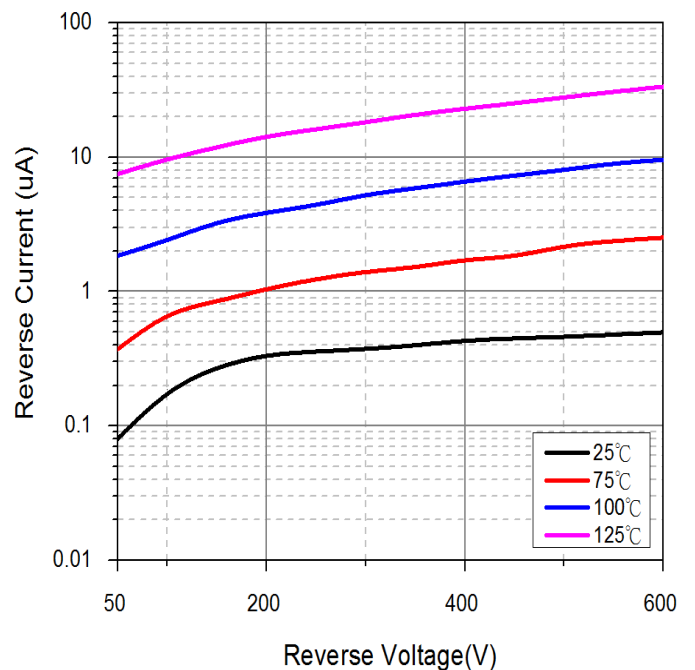
Typical Forward Characteristic



Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

