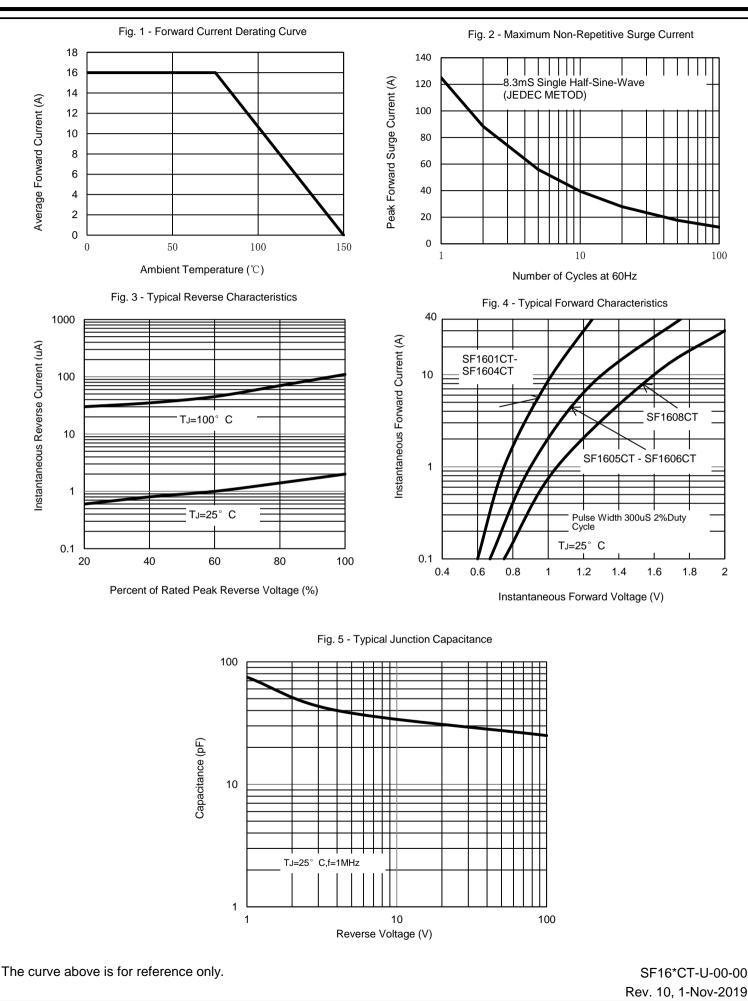


SF1601CT THRU SF1608CT

Super Fast Recovery Rectifiers			Reverse Voltage - 50 to 600 Volts Forward Current - 16.0 Amperes							
Features • Fast switching for high efficiency • Low cost • Low reverse leakage current • High current capability • Low forward voltage drop • Meet UL flammability classification 94V-0 Mechanical Data • Case: TO-220AB Molded plastic • Polarity: Polarity: As marked on the body • Mounting position: Any Applications • For use in SMPS, high frequency inverters, PWM and polarity protection applications		TO-220AB $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $								
Package Outline Dimensions in Inches (Millimeters) Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.										
	Symbol	1601CT	1602CT	1603CT	1604CT	1605CT	1606CT	1608CT	Unit	
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	150	200	300	400	600	V	
Maximum RMS Voltage	Vrms	35	70	105	140	210	280	420	V	
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	V	
Maximum Average Forward Rectified Current @ TA=75°C	l(AV)	──			16.0			'	A	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	1			125			,	А	
Peak Forward Voltage at 8.0A DC (Note1)	VF	<u> </u>	1.0 1.3 1.7					V		
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR				10 150	I		L	μA	
Maximum Reverse Recovery Time (Note 2)	Trr	[35				nS	
Typical Junction Capacitance (Note3)	CJ	[40						pF	
Typical Thermal Resistance Junction to Ambient	Reja	[2.5						°C/W	
Operating Junction Temperature Range	TJ,TSTG	[<u> </u>	-55 to + 15	50			°C	
Notes: 1. 300uS pulse width, 2%duty cycle.									<u> </u>	
 Measured with IF=0.5A,IR=1A,IRR=0.25A . Measured at 1.0 MHz and applied reverse voltage of 4.0V DC. The typical data above is for reference only 										

SF16*CT-U-00-00 Rev. 10, 1-Nov-2019

Rating and Characteristic Curves SF1601CT THRU SF1608CT





Disclaimer

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