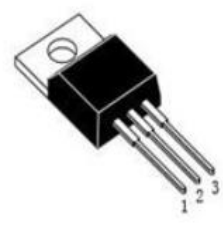
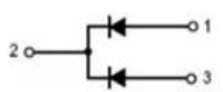
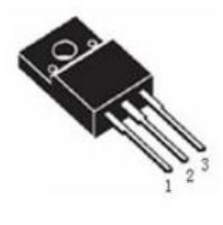


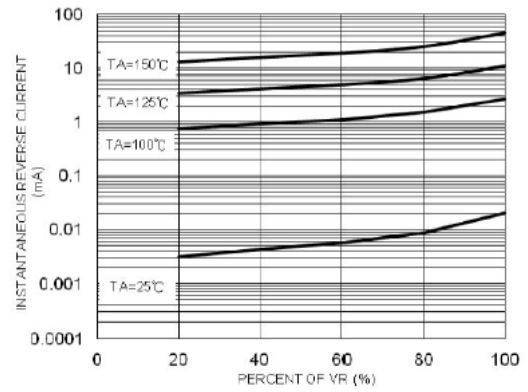
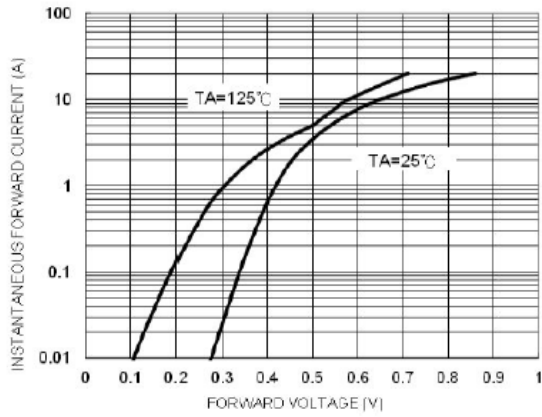
<b>LOW VF SCHOTTKY RECTIFIERS</b>	<b>REVERSE VOLTAGE 100 Volts FORWARD CURRENT 20 Amperes</b>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Schottky Barrier Chip</li> <li>• Low Power Loss,High Efficiency</li> <li>• High Surge Capability</li> <li>• High frequency operation</li> <li>• High Current Capability and Low Forward Voltage Drop</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: TO-220, TO-220F</li> <li>• Polarity: As Marked</li> </ul>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>S20U100CT</b></p>  <p><b>TO-220</b></p>  </div> <div style="text-align: center;"> <p><b>S20U100FCT</b></p>  <p><b>TO-220F</b></p> <p>1、 ANODE 2、 CATHODE 3、 ANODE</p> </div> </div>

**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	S20U100CT	S20U100FCT	Unit
Peak Repetitive Reverse Voltage		$V_{RRM}$	100		V
Working Peak Reverse Voltage		$V_{RWM}$	100		V
DC Blocking Voltage		$V_{DC}$	100		V
Maximum Instaneous Forward Voltage $I_F=5A T_C=25^\circ C$ $I_F=5A T_C=125^\circ C$ $I_F=10A T_C=25^\circ C$ $I_F=10A T_C=125^\circ C$		$V_F$	Typ. 0.54 0.5 0.65 0.58		V
Maximum Reverse Current at Rated at Rated DC Blocking Voltage		$I_R$	0.1 20		mA
Average Output Rectifie Current (per leg) (total device)		$I_F$	10 20		A
Non-Repetitive Peak Surge Current Surge applied at rated load conditions halfwave,single phase,60Hz		$I_{FSM}$	275		A
Maximum Thermal Resistance	TO-220	$R_{\theta JC}$	2		°C/W
	TO-220F		4		
	TO-220	$R_{\theta JA}$	60		
	TO-220F				
Junction and StorageTemperature Range		$T_J, T_{STG}$	-65 to +150		°C

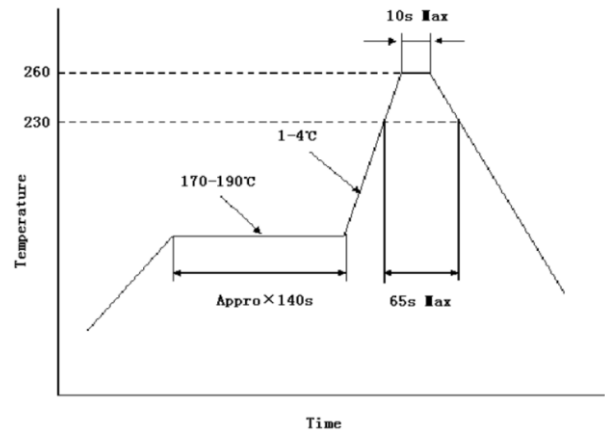
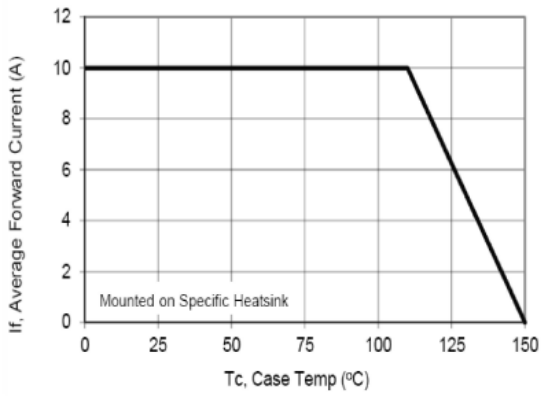
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**Rating and Characteristic Curves**



**Typical Forward Voltage Per Diode**

**Typical Reverse Current Per Diode**



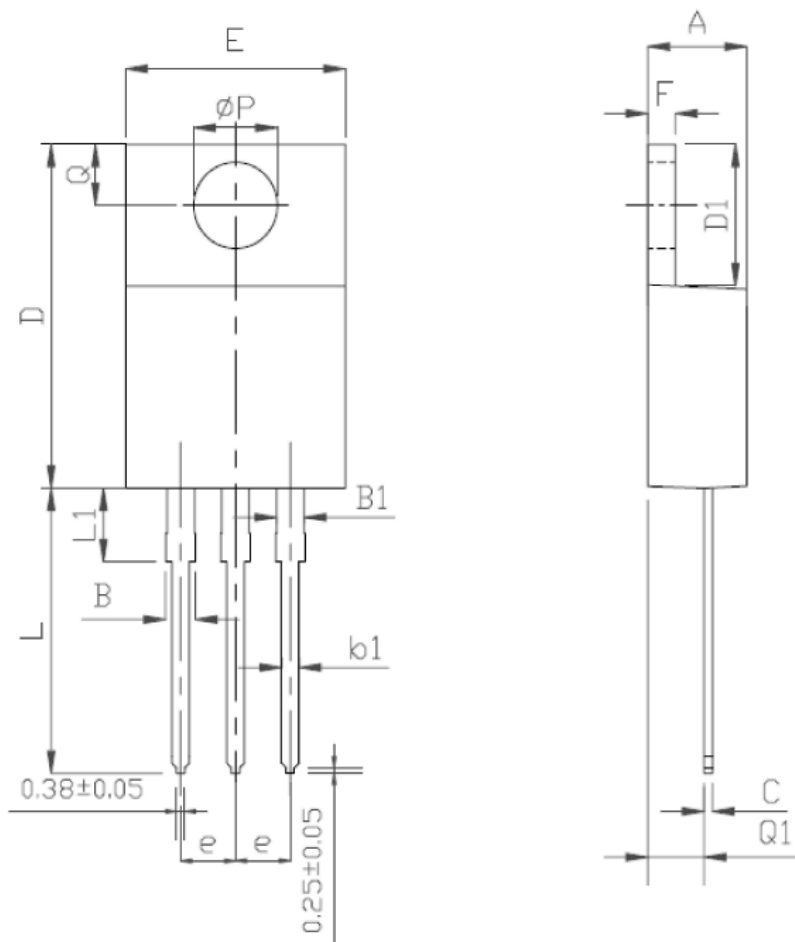
**Average Forward Current vs. Case Temperature Per Diode**

**Reflow Soldering Temperature Profile**

TO-220 MECHANICAL DATA

UNIT: mm

SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX
A	4		4.8	e	2.44	2.54	2.64
B	1.2		1.4	F	1.1		1.4
B1	1		1.4	L	12.5		14.5
b1	0.75		0.95	L1	3	3.5	4
c	0.4		0.55	ΦP	3.7	3.8	3.9
D	15		16.5	Q	2.5		3
D1	5.9		6.9	Q1	2		2.9
E	9.9		10.7				



TO-220F MECHANICAL DATA

UNIT: mm

SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX
A	4.5		4.9	E1	6.5	7	7.5
A1	2.3		2.9	e	2.44	2.54	2.64
b	0.65		0.9	L	12.5		14.3
b1	1.1		1.7	L1	9.45		10.05
b2	1.2		1.4	L2	15		16
c	0.35		0.65	L3	3.2		4.4
D	14.5		16.5	ΦP	3		3.3
D1	6.1		6.9	Q	2.5		2.9
E	9.6		10.3				

