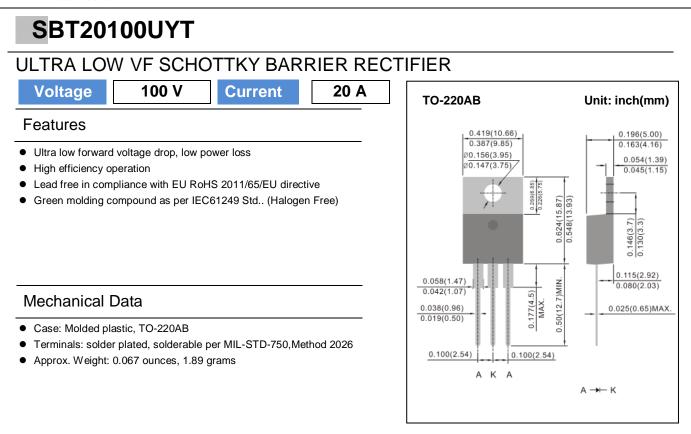
PAN	JIT
	SEMI CONDUCTOR



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage	Vrrm	100	V
Maximum rms voltage	Vrms	70	V
Maximum dc blocking voltage	VR	100	V
Maximum average forward rectified current	lf(AV)	20	А
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load	IFSM	250	A
Typical thermal resistance (Note 1)	$R_{ extsf{ heta}JC}$	3	°C/W
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	Тѕтс	-55 to +150	°C

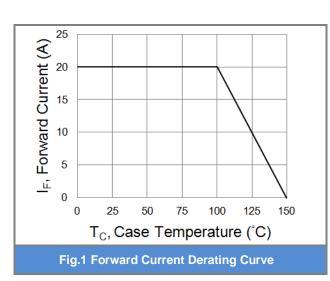
Note : 1. Device mounted on a infinite heatsink , then measured the center of the marking side.



Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	TJ=25°C	100	-	-	V
		I _F =5A		-	0.48	-	
Instantaneous forward		I _F =10A	TJ=25°C	-	0.57	-	V
	V _F	I _F =20A		-	-	0.78	
voltage		I _F =5A	TJ=125°C	-	0.41	-	V
		I _F =10A		-	0.53	-	
_		V _R =70V	Tj=25°C	-	5	-	μA
Reverse current	Reverse current I _R	1001	TJ=25°C	-	-	120	μA
	V _R =100V	TJ=125°C	-	12	-	mA	

TYPICAL CHARACTERISTIC CURVES



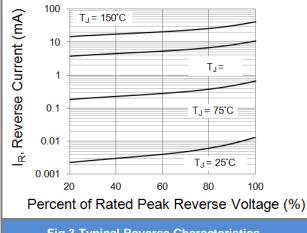
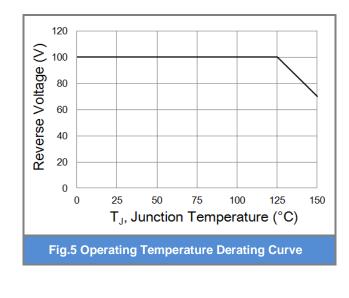


Fig.3 Typical Reverse Characteristics



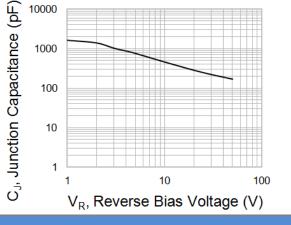
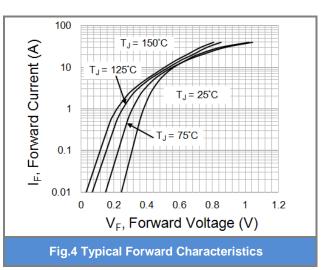


Fig.2 Typical Junction Capacitance





Part No Packing Code Version

Part No Packing Code		Package Type	Packing Type	Marking	Version
	SBT20100UYT_T0_00001	TO-220AB	50pcs / Tube	SBT20100UYT	Halogen free



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