

#### Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

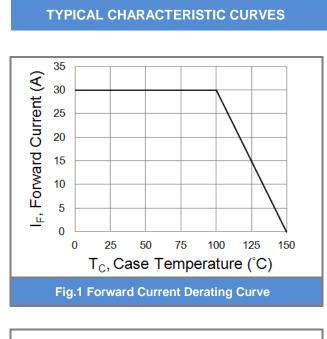
PARAMETER	SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage	Vrrm	100	V
Maximum rms voltage	Vrms	70	V
Maximum dc blocking voltage	Vr	100	V
Maximum average forward rectified current	IF(AV)	30	А
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load	IFSM	250	A
Typical thermal resistance (Note 1)	$R_{ ext{ heta}JC}$	2	°C/W
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	Тѕтс	-55 to +150	°C

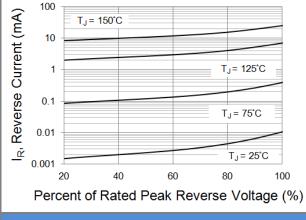
Note : 1. Mounted on infinite heatsink



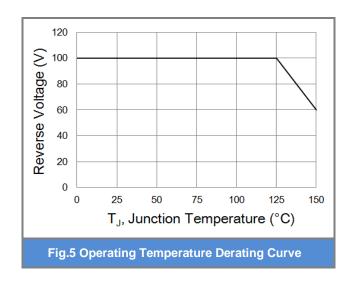
Electrical Characteristics ( $T_A=25^{\circ}C$  unless otherwise noted)

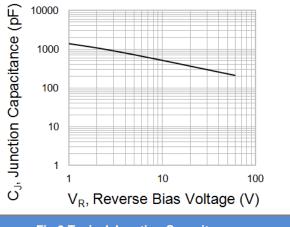
PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	$V_{BR}$	I <sub>R</sub> =0.5mA	TJ=25°C	100	-	-	V
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =5A	TJ=25°C	-	0.49	-	V
		I <sub>F</sub> =10A		-	0.56	-	
		I <sub>F</sub> =30A		-	-	0.86	
		I <sub>F</sub> =5A	TJ=125°C	-	0.43	-	V
		I <sub>F</sub> =10A		-	0.53	-	
Reverse current I <sub>R</sub>	V <sub>R</sub> =70V	Tj=25°C	-	5	-	μA	
	I <sub>R</sub>	I <sub>R</sub> V <sub>R</sub> =100V	TJ=25°C	-	-	50	μA
			TJ=125°C	-	7	-	mA



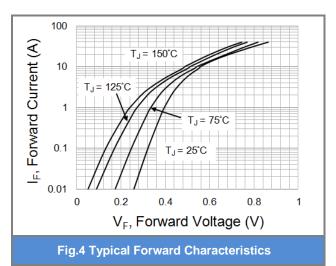


**Fig.3 Typical Reverse Characteristics** 











#### Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBT30100VYT_T0_00001	TO-220AB	50pcs / Tube	SBT30100VYT	Halogen free



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