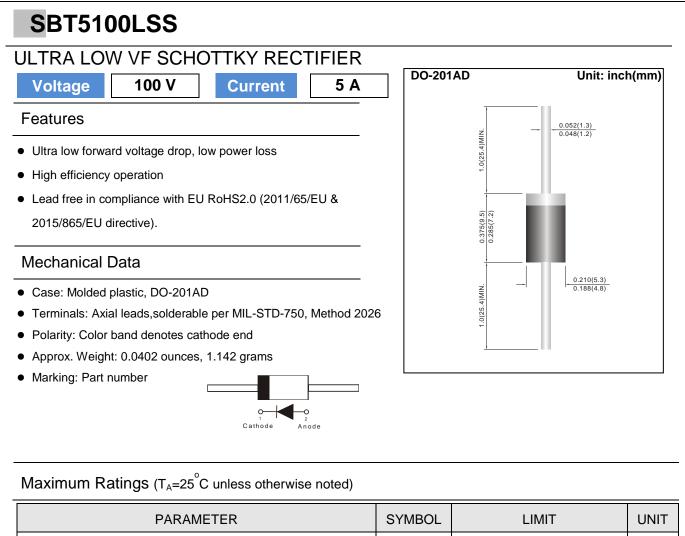
ĴΤ
 SEMI CONDUCTOR





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)	5	А
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load	IFSM	80	А
Typical thermal resistance (Note 1)	$R_{ extsf{ hetaJL}}$	23	°C/W
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	Тѕтс	-55 to +150	°C

Note : 1. The testing condition of the thermal resistance (junction to ambient and junction to lead) is based on 0.375"(9.5mm) lead length between two 10x10cm copper pad heatsinks.

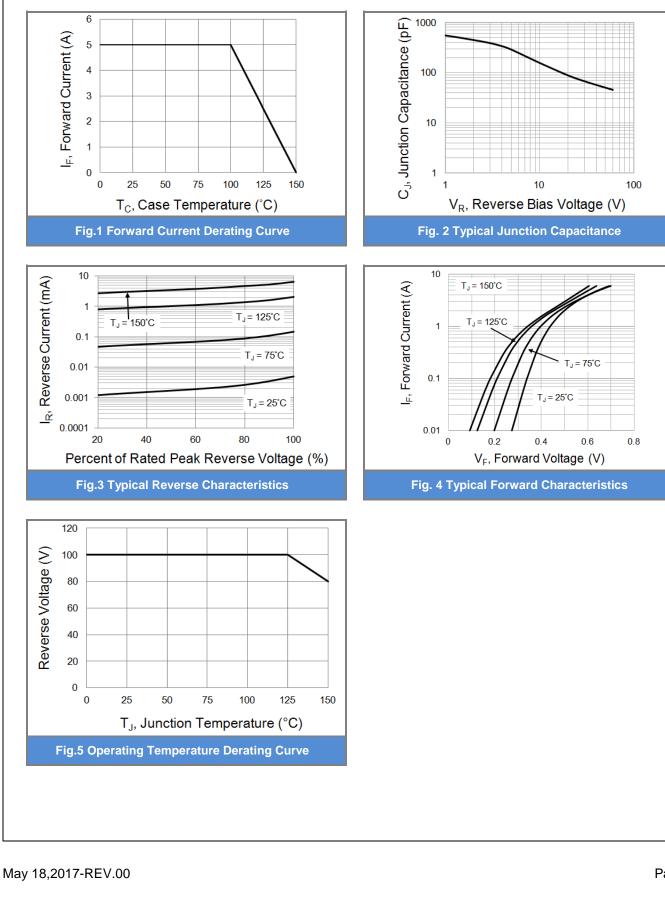
2. Short duration pulse test used to minimize self-heating effect.





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
Instantaneous forward voltage	V _F	I _F =1A		-	0.44	-	
		I _F =2A	TJ=25°C	-	0.5	-	V
		I _F =5A		-	-	0.7	
		I _F =1A	TJ=125°C	-	0.36	-	V
		I _F =2A		-	0.45	-	
Reverse current I _R	V _R =80V	TJ=25°C	-	3	-	μA	
	I _R	<u>)/ 100)/</u>	TJ=25°C	-	-	20	μA
		V _R =100V	TJ=125°C	-	3	-	mA



TYPICAL CHARACTERISTIC CURVES







Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBT5100LSS_AY_00001	DO-201AD	1250pcs / Ammo	SBT5100LSS	Halogen free
SBT5100LSS_B0_00001	DO-201AD	500pcs / Box	SBT5100LSS	Halogen free
SBT5100LSS_R2_00001	DO-201AD	1250pcs / 13" reel	SBT5100LSS	Halogen free





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