

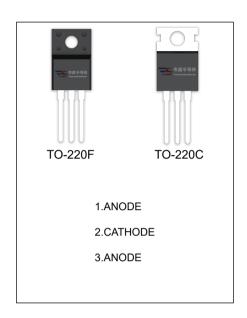
SBD30100TA SBDF30100TA SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	30A
V_{RRM}	100 V
T _j	150℃
$V_{F(typ)}$	0.72V (@Tj=125℃)

FEATURES

- Low Power Loss, High Efficiency
- Guard Ring Die Construction for Transient Protection
- High Current Capability and Low Forward Voltage Drop



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol Parameter		SBD		Linit	
Symbol	Parameter		F30100TA	Unit	
V_{RRM}	Peak repetitive reverse voltage	100		V	
V_{RWM}	Working peak reverse voltage				
V_R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	70		V	
Io	Average rectified output current	30		Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	250		Α	
R _{OJc}	Thermal resistance from junction to case ,Tc=25℃	2.0	3.0	°C/W	
R _{OJA}	Thermal resistance from junction to ambient	62.5		°C/W	
T _j	Junction temperature	150		°C	
T _{stg}	Storage temperature	-55~+150		°C	

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Symbol Test conditions	Min	Тур	Max	Unit
Reverse voltage	V _(BR)			100			V	
Reverse current	I _R	\/ 400\/	Tj =25℃		10.0	100	uA	
	ik ik	V _R =100V	Tj =125℃		10.0		mA	
Forward voltage	V _F	I _F =15A	Tj =25℃		0.62		V	
			Tj =125℃		0.58		V	
		I _F =30A	Tj =25℃		0.78	0.86	V	
			Tj =125℃		0.72		V	

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



