

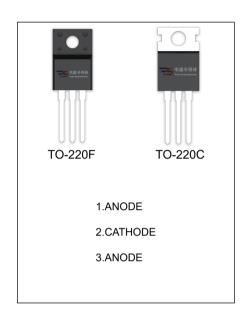
SBD30H300A SBDF30H300A SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	30A
V_{RRM}	300 V
T _j	175 ℃
$V_{F(typ)}$	0.86V (@Tj=150°C)

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)

Cymphol	Symbol Parameter		SBD	
Symbol			F30H300A	Unit
V _{RRM}	Peak repetitive reverse voltage	300		
V_{RWM}	Working peak reverse voltage			V
V_R	DC blocking voltage			
V _{R(RMS)}	RMS reverse voltage	210		٧
Io	Average rectified output current	30		Α
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	360		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	75		°C/W
T _j	Junction temperature	175		$^{\circ}$
T _{stg}	Storage temperature	-55~+175		°C

ELECTRICAL CHARACTERISTICS (T₂=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min 300	Тур	Max	Unit V
Reverse voltage	V _(BR)						
Reverse current	I _R	V _R =300V	Tj =25℃		0.5	2.0	uA
	ik ik		Tj =150℃		2.0		mA
Forward voltage	V _F	I _F =15A	Tj =25℃		0.85		V
			Tj =150℃		0.72		V
		I _F =30A	Tj =25℃		0.93	0.97	V
			Tj =150℃		0.86		V

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



