

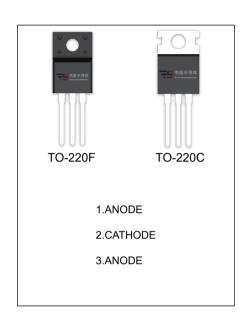
SBD3060CT SBDF3060CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	30 (2×15) A		
V_{RRM}	60 V		
T _j	150 ℃		
$V_{F(typ)}$	0.65V (@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)

Cumbal	Dovomotov	SBD		I I m i 4	
Symbol	Parameter		F3060CT	Unit	
V_{RRM}	Peak repetitive reverse voltage	60		>	
V _{RWM}	Working peak reverse voltage				
V _R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	42		V	
Io	Average rectified output current	30		Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	200		А	
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		$^{\circ}$	
T _{stg}	Storage temperature	-55~+150		°C	

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)			60			V
Reverse current	I _R	V _R =60V	Tj =25℃		5.0	100	uA
			Tj =125℃		5.0		mA
Forward voltage	V _F	I _F =10A	Tj =25℃		0.66		V
			Tj =125℃		0.58		V
		I _F =15A	Tj =25℃		0.75	0.80	V
			Tj =125℃		0.65		V

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



