

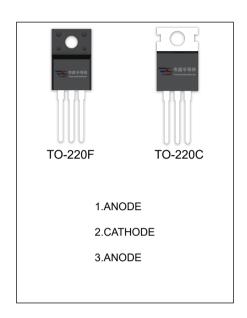
SBD2060CT SBDF2060CT SCHOTTKY BARRIER RECTIFIER

MAIN CHARACTERISTICS

Io	20 (2×10) A				
V_{RRM}	60V				
T _j	150 ℃				
$V_{F(typ)}$	0.62V (@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)

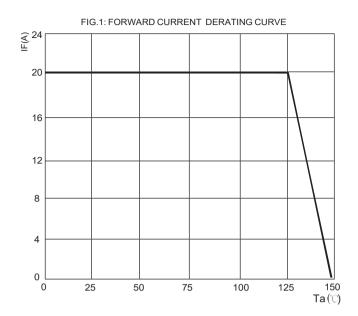
Cymphol	Parameter	SBD		Unit	
Symbol	Parameter		F2060CT	Unit	
V_{RRM}	Peak repetitive reverse voltage	60		V	
V_{RWM}	Working peak reverse voltage				
V_R	DC blocking voltage				
V _{R(RMS)}	RMS reverse voltage	42		٧	
Io	Average rectified output current	20		Α	
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	150		Α	
R _{OJc}	Thermal resistance from junction to case ,Tc=25℃		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 (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 =5A	Tj =25℃		0.59		V
			Tj =125℃		0.53		V
		I _F =10A	Tj =25℃		0.71	0.78	V
			Tj =125℃		0.62		V

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





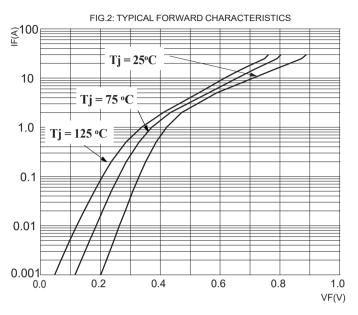


FIG.3: TOTAL CAPACITANCE DERATING CURVE

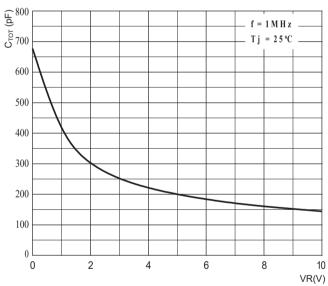


FIG.4: TYPICAL REVERSE CHARACTERISTICS

