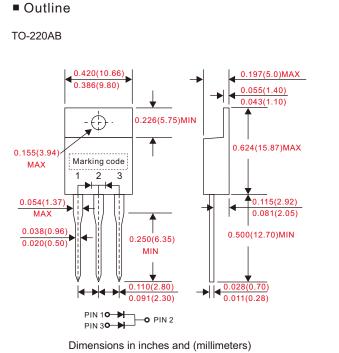
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SB3040CT THRU SB3065CT

30A High Power Schottky Barrier Rectifiers

Features

- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- Guardring for overvoltage protection.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "G" indicates Halogen-free part, ex.SB3040CTG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228



Mechanical data

- Epoxy : UL94-V0 rated flame retardant.
- Case : JEDEC TO-220AB molded plastic body.
- Terminals : Solder plated, solderable per
- MIL-STD-750, Method 2026.
- Polarity: As marked.
- Mounting Position : Any.
- Weight : Approximated 2.25 gram.

Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

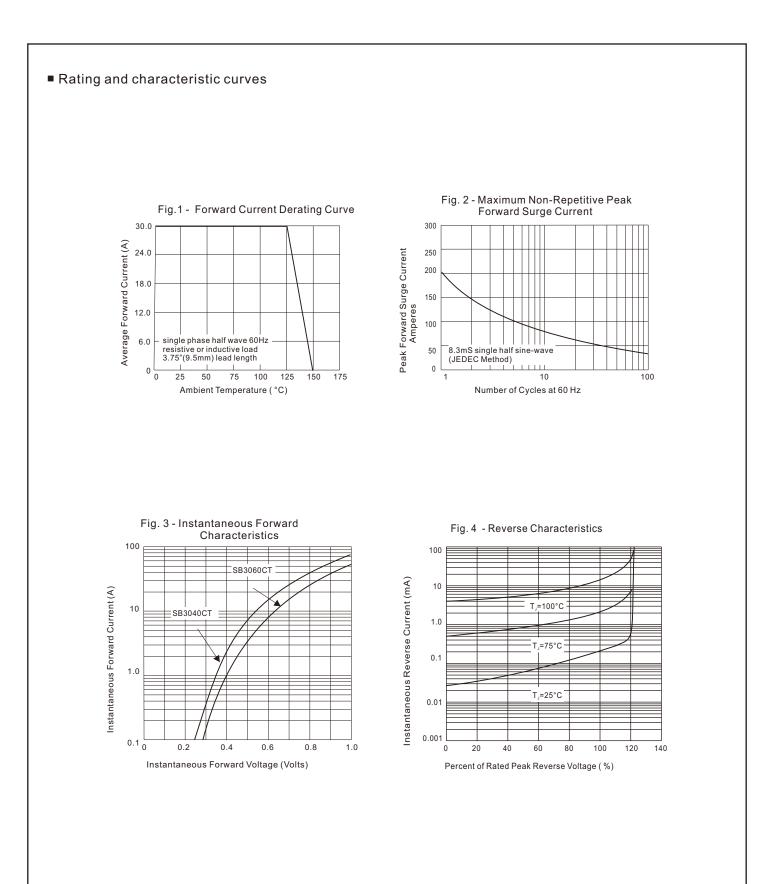
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I _o			30	А
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{fsm}			200	А
5 .	$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$				0.5	
Reverse current	$V_{R} = V_{RRM} T_{A} = 100^{\circ}C$	I _R			20 mA	
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C		250		pF
Thermal resistance	Junction to ambient	R _{eja}		55		°C/W
Storage temperature		T _{STG}	-55		+175	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. RMS voltage V _{RMS} (V)	Max. DC blocking voltage V _R (V)	Max. forward voltage @15A, T _A = 25°C V _F (V)	Operating temperature $T_J(^{\circ}C)$	
SB3040CT	SB3040CT	40	28	40	0.55		
SB3045CT	SB3045CT	45	31.5	45	0.55		
SB3060CT	SB3060CT	60	42	60	0.70	-55~+150	
SB3065CT	SB3065CT	65	45.5	65	0.70		
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