

SBR0130S3 SBR0130S5

Super Barrier Rectifier TM

Using state-of-the-art SBR IC process technology, the following features are made possible in a single device:

Major ratings and characteristics

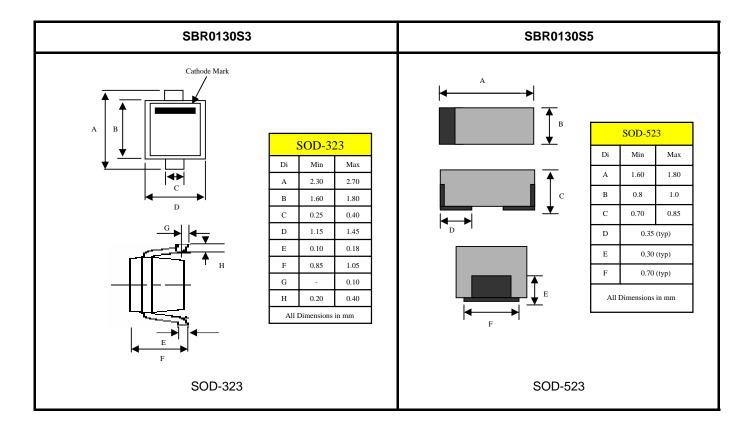
Characteristics	Values	Units
I _{F(AV)} Rectangular Waveform	0.10	A
V _{RRM}	30	V
V _F @0.1A, T _J =75°C	0.37	V, typ
T _J (operating/storage)	-65 to 125	°C

ELECTRICAL:

- * Low Forward Voltage Drop
- * Low Reverse Leakage
- * Reliable High Temperature Operation
- * Super Barrier Design
- * Softest, fast switching capability
- * 125°C Operating Junction Temperature

MECHANICAL:

* Molded Plastic SOD-323, SOD-523 packages



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teristics			
SYMBOL			UNITS
V _{rm} V _{rwm} V _{rrm}	30		Volts
Ι _ο	0.10		Amps
I _{FSM}	2		Amps
V _F	Тур 	Max 0.42 0.40	Volts
I _R *	Тур 	Max 50 500	uA uA
TJ	-65 to	-65 to +125	
	SYMBOL V _{RM} V _{RWM} V _{RRM} I _O I _{FSM} V _F	SYMBOL V_{RM} V_{RWM} V_{RRM} 30 I_0 0.1 I_FSM 2 V_F Typ V_F Typ I_R^* Typ 	$\begin{tabular}{ c c c c c c } \hline SYMBOL & & & & & & & & & & & & & & & & & & &$

NOTE: Dice are available for customer applications.

 * Pulse width < 300 uS, Duty cycle < 2%



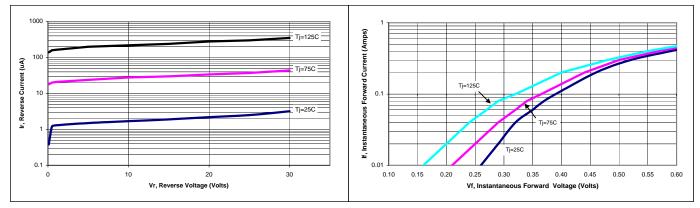
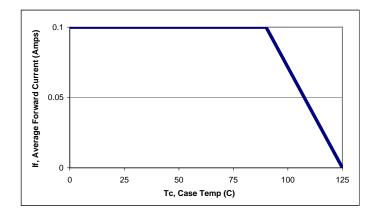
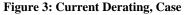


Figure 1: Typical Reverse Current

Figure 2: Typical Forward Voltage





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