

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

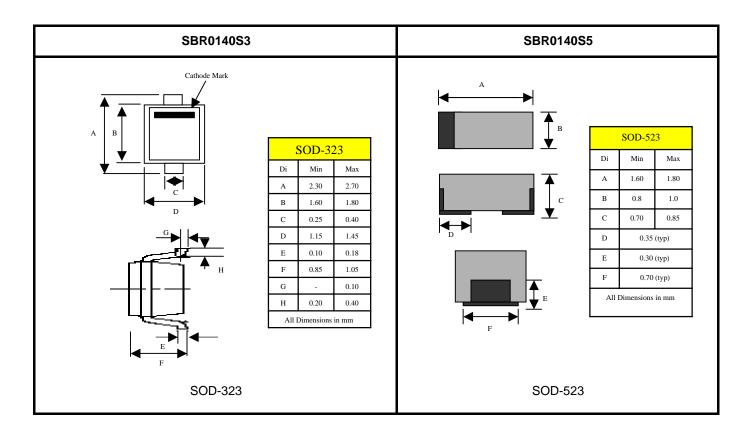
Characteristics	Values	Units
I _{F(AV)} Rectangular Waveform	0.10	Α
V_{RRM}	40	V
V _F @0.1A, T _J =75°C	0.43	V, typ
T _J (operating/storage)	-65 to 125	°C

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



	SYMBOL			UNITS
DC Blocking Voltage Working Peak Reverse Voltage Peak Repetitive Reverse Voltage	V _{RM} V _{RWM} V _{RRM}	40		Volts
Average Rectified Forward Current (Rated V _R - 20Khz Square Wave) - 50% duty cycle	Io	0.10		Amps
Peak Forward Surge Current - 1/2 60hz	I _{FSM}	2		Amps
Instantaneous Forward Voltage $I_F = 100mA; T_J = 25^{\circ}C$ $I_F = 100mA; T_J = 75^{\circ}C$	V _F	Typ 	Max 0.49 0.46	Volts
Maximum Reverse Current at Rated V_{RM} $T_J = 25^{\circ}C$ $T_J = 75^{\circ}C$	I _R *	Typ 	Max 5 200	uA uA
Operating and Storage Junction Temperature	T _J	-65 to +125		°С

NOTE: Dice are available for customer applications.

 $^{^{\}star}$ Pulse width < 300 uS, Duty cycle < 2%

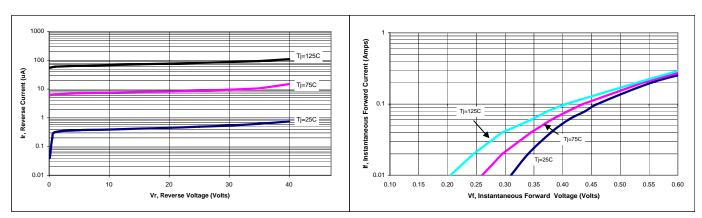


Figure 1: Typical Reverse Current

Figure 2: Typical Forward Voltage

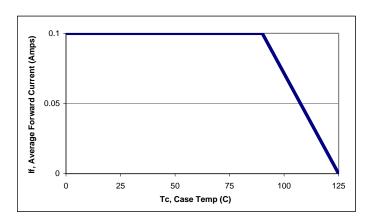


Figure 3: Current Derating, Case

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▲APD Semiconductor, Inc.

1 Lagoon Drive, Suite 410, Redwood City, CA 94065, USA Ph: 650 508 8896 FAX: 650 508 8865 Homepage: www.apdsemi.com email: info@apdsemi.com