

Product profile

Surface Mount High Current Density Schottky

General description

Rectifiers 3.0 Amp 60V

Features

Guarding protection

Low forward voltage

Reverse energy tested

High current capability

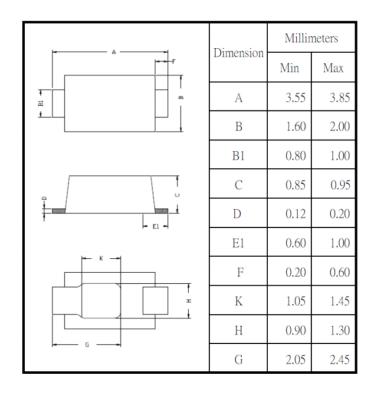
Extremely low thermal resistance

Mechanical data

Case: SOD-123 Molded plastic

Epoxy: UL94V-O rate flame retardant Lead: Lead Formed for Surface Mount Polarity: Color band denotes cathode end

Mounting position: Any



Maximum Ratings (Tc=25°C unless otherwise noted)						
Parameter	Symbol	SD3U60ST	Unit			
Maximum repetitive peak reverse voltage	VRRM	60	V			
RMS Voltage (Max.)	VRMS	42	V			
Working peak reverse voltage	VRWM	60	V			
Maximum average forward rectified current	IF(AV)	3.0	А			
Peak forward surge current			А			
8.3ms single half sine-wave superimposed	IFSM	45				
on rated load (JEDEC Method)	IFSIVI					
1pulse/4S t=500us exponent wave	1	250				
Operating junction temperature range	TJ	-55 to +125	°C			
Storage temperature range	TSTG	-55 to +150	°C			

THERMAL CHARACTERISTICS						
Parameter	Symbol	Value	Unit			
Typical thermal resistance	RθJA	42	°C/W			

Notes:

(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms



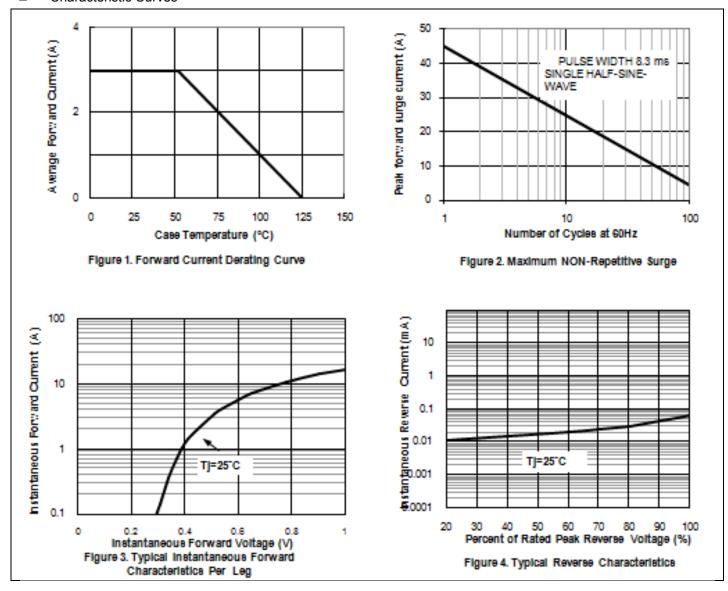
Electrical characteristics (Tc=25°C unless otherwise noted)

OFF CHARACTERISTICS

Parameter	Symbol	Value	Unit	
		Typical	Max	
Instantaneous forward voltage	VE			
at IF=3A, Tj=25°C	VF	0.47	0.51	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Maximum reverse current				
Tj=25°C	IR	100		u'A
at working peak reverse voltage Tj=125°C	-	10		m'A



■ Characteristic Curves





Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE. Bruckewell Technology Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Bruckewell"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Bruckewell makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bruckewell disclaims

- (i) Any and all liability arising out of the application or use of any product.
- (ii) Any and all liability, including without limitation special, consequential or incidental damages.
- (iii) Any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Bruckewell's knowledge of typical requirements that are often placed on Bruckewell products in generic applications.

Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time.

Product specifications do not expand or otherwise modify Bruckewell's terms and conditions of purchase, including but not limited to the warranty expressed therein.