

SUPER FAST RECTIFIERS

Features

- · Low cost
- · Low leakage
- · Low forward voltage drop
- · High current capability
- Easily cleaned with alcohol, Isopropanol and similar

s olve nts

- The plastic material carries U/L recognition 94V-0
- · RoHS compliant package

Mechanical Characteristics

· Terminals: Axial lead, solderable per MIL-

STD-202, Method 208

· Polarity: Color band denotes cathode

• Weight: 0.014 ounces, 0.39 grams

• Mounting position: Any

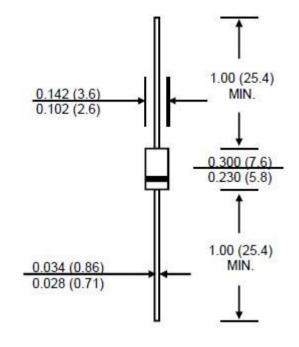
Package type: DO-15

Packing & Order Information

3,000/T



RoHS COMPLIANT



Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.										
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.										
	Symbol	SF21	SF22	SF23	SF24	SF25	SF26	SF27	SF28	Unit
Maximum recurrent peak reverse	VRRM	50	100	150	200	300	400	500	600	V
voltage										
Maximum RMS voltage	VRMS	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	500	600	V
Maximum average forward rectified										
Current 9.5mm lead length,	IF(AV) 2.0								A	
@ TA=75°C										
Peak forward surge current										
8.3ms single half-sine-wave	F-63.4	50								
superimposed on rated load	IFS M	50								A
@ TJ=125°C										



SUPER FAST RECTIFIERS

Ratings at 25°C ambient temperature unless otherwise specified.												
Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by20%.												
	Symbol	SF21	SF22	SF23	SF24	SF25	SF26	SF27	SF28	Unit		
Maximum instantaneous forward	N/IC	0.95 1.25 1.7						7	V			
voltage @ 2.0A	VF		0.	93		1.23		1.7		_ v		
Maximum reverse current	IR	5.0 50.0								μΑ		
@ TA=25°C												
at rated DC blocking voltage												
@ TA=125°C												
Maximum reverse recovery time	_	35								ns		
(Note 1)	Trr											
Typical junction capacitance		60					20					
(Note 2)	CJ		6	U		30				pF		
Typical thermal resistance (Note 3)	RθJA	20							°C/W			
Operating junction temperature			-55 to +125							°C		
range	TJ											
Storage temperature range	TSTG	-55 to +150							°C			

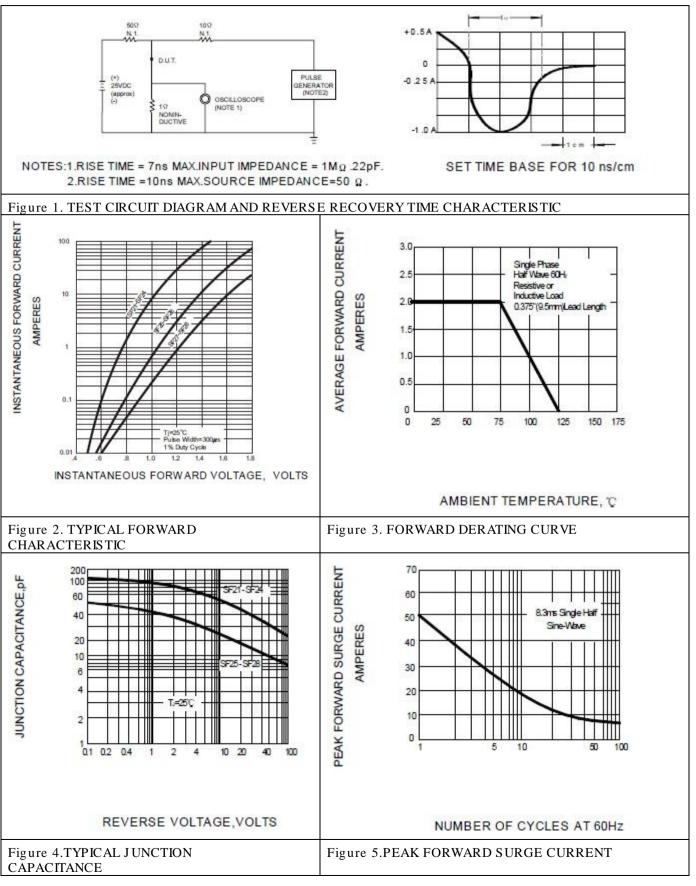
NOTE:

- 1. Measured with IF=0.5A, IR=1A, Irr=0.25A.
- 2. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance from junction to ambient.



SUPER FAST RECTIFIERS

■RATINGS AND CHARACTERISTIC CURVES





SUPER FAST RECTIFIERS

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.