

Surface Mount Super Fast Rectifiers 1.0 Amp 600V

Features

• Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.

• Low profile surface mounted application in order to optimize board space.

- · Small plastic SMD package.
- High surge and high current capability.
- Superfast recovery time for switching mode

application.

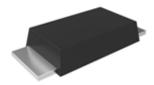
RoHS compliant package

Mechanical Data

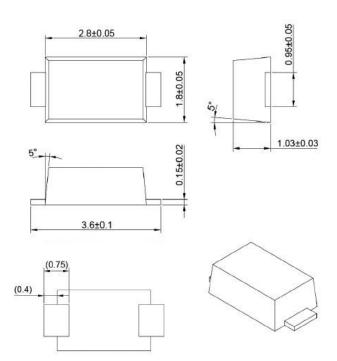
- · Case: Molded plastic
- Epoxy: UL94-V0 rate flame retardant
- Weight: 0.0110 g (approximately)

Packing Information

5000/Tape&Reel







Graphic symbol





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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)						
Parameter	Symbol	SUF160L	Unit			
Maximum repetitive peak reverse voltage	VRRM	600	V			
RMS Voltage (Max.)	VRMS	420	V			
Working peak reverse voltage	VRWM	600	V			
Maximum average forward rectified current	IF(AV)	1.0	А			
Peak forward surge current						
8.3ms single half sine-wave superimposed	IFSM	25	А			
on rated load (JEDEC Method)						
Operating junction temperature range	TJ	-55 to +150	°C			
Storage temperature range	TSTG	-55 to +150	°C			

Electrical characteristics (Tc=25°C unless otherwise noted)						
Parameter	Symbol	Value		Unit		
		Typical	Max	Onit		
Instantaneous forward voltage at IF=1A, Tj=25°C	VF	1.5	1.7	V		
Maximum reverse current per leg Tj=25°C	IR	1		u'A		
at working peak reverse voltage Tj=100°C		100		u'A		
Maximum Reverse Recovery Time	TRR	35		ns		

Thermal characteristics (Tc=25°C unless otherwise noted)					
Parameter	Symbol	Value	Unit		
Typical thermal resistance	RθJA	42	°C/W		

Notes:

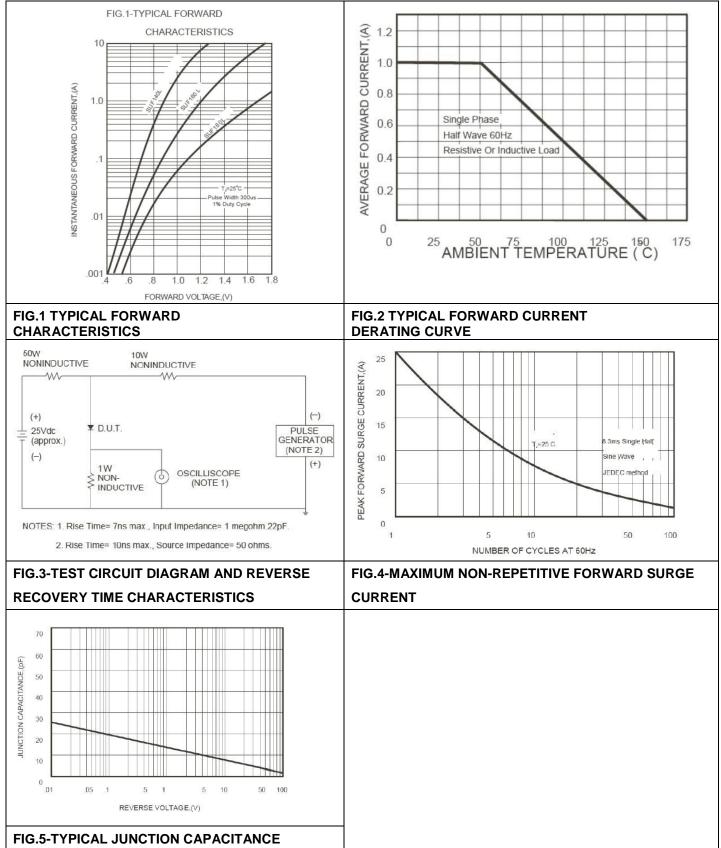
(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width \leq 40 ms



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