

Product profile

Surface Mount High Current Density Schottky

General description

Rectifiers 1.0 Amp 60V

Features

Guarding protection

Low forward voltage

Reverse energy tested

High current capability

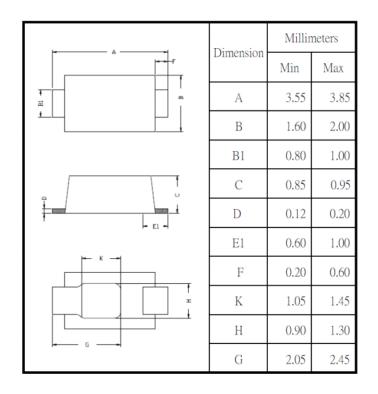
Extremely low thermal resistance

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	SD1U60ST	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)	1.0	А
Peak forward surge current			А
8.3ms single half sine-wave superimposed	IECNA	10	
on rated load (JEDEC Method)	IFSM		
1pulse/4S t=500us exponent wave		60	1
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:

Publication Order Number: SD1U60ST

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

(2) Pulse test: Pulse width ≤ 40 ms



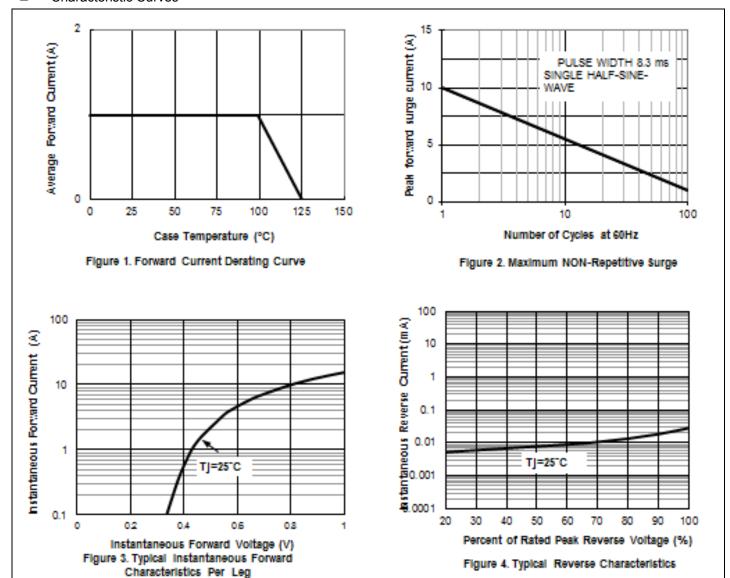
Electrical characteristics (Tc=25°C unless otherwise noted)

OFF CHARACTERISTICS

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage	\/_			V
at IF=1A, Tj=25°C	VF	0.44	0.48	
Maximum reverse current				
Tj=25°C	IR	100		u'A
at working peak reverse voltage Tj=125°C		10		m'A



■ Characteristic Curves





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