

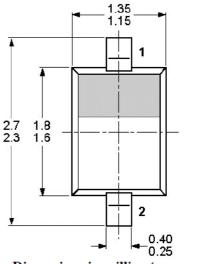
Surface Mount High Current Density Schottky Rectifiers 1.0 Amp 60V

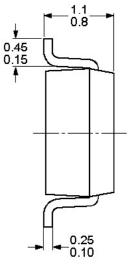
Features

- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- · Extremely low thermal resistance
- RoHS compliant package

Mechanical Data

- Case: SOD-323 Molded plastic
- Epoxy: UL94V-O rate flame retardant
- · Lead: Lead Formed for Surface Mount
- · Polarity: Color band denotes cathode end
- Mounting position: Any





Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)				
Parameter	Symbol	BAT-60	Unit	
Maximum repetitive peak reverse voltage	VRRM	60	V	
Working peak reverse voltage	VRWM	42	V	
Maximum DC blocking voltage	VDC	60	V	
Maximum average forward rectified current	IF(AV)	1.0	A	
Operating junction temperature range	TJ	-55 to +150	°C	
Storage temperature range	TSTG	-55 to +150	°C	

Maximum Ratings (Tc=25°C unless otherwise noted)				
Parameter	Symbol	BAT-60	Unit	
Peak forward surge current		10	A	
8.3ms single half sine-wave superimposed	IFON			
on rated load (JEDEC Method)	IFSM			
1pulse/4S t=500us exponent wave		60		

Note:

(1) Mounted on 30 mm x 30 mm Al P.C.B. with 50 mm x 25 mm x 100 mm fin heat sink

(2) Free air, mounted on recommended copper pad area



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Electrical characteristics (Tc=25°C unless otherwise noted)					
Parameter		Symbol	Value		Unit
			Typical	Max	Unit
Instantaneous forward voltage	at IF=200mA, Tj=25°C	VF	0.37	0.69	V
	IF=500mA, Tj=25°C		0.47	0.50	
	IF=1.0A, Tj=25°C		0.63	0.69	
	IF=200mA, Tj=125°C		0.28	0.31	
	IF=500mA, Tj=125°C		0.46	0.49	
	IF=1.0A, Tj=125°C		0.62	0.68	
Maximum reverse current per leg	Tj=25°C	IR	10	0	u'A
at working peak reverse voltage	Tj=100°C	IK	20)	m'A

Thermal characteristics (Tc=25°C unless otherwise noted)				
Parameter	Symbol	Value	Unit	
Typical thermal resistance	RθJA	88	°C/W	
	RθJC	30	°C/W	

Notes:

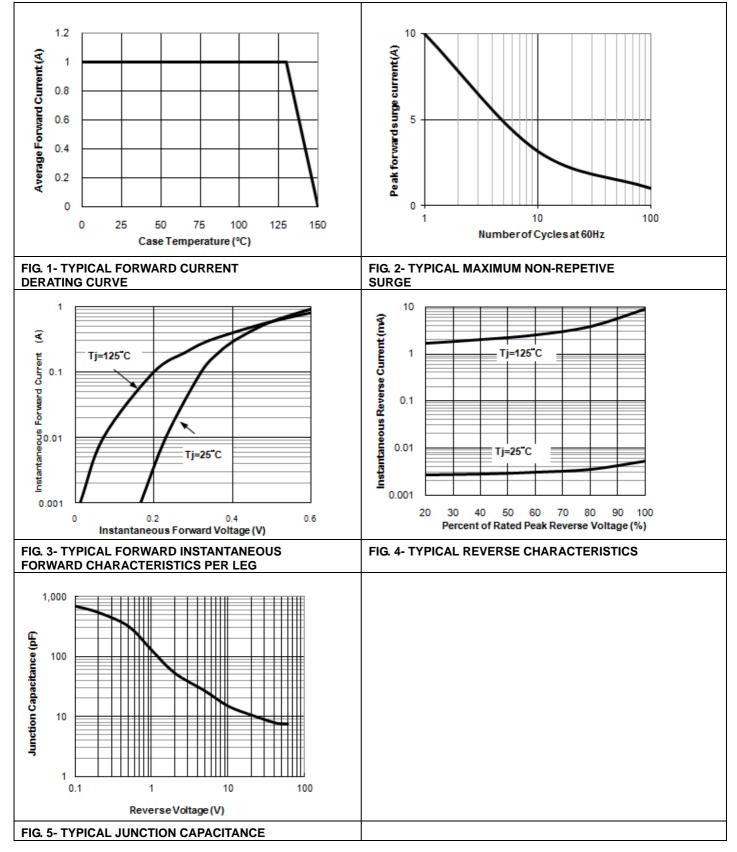
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

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



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■RATINGS AND CHARACTERISTIC CURVES





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