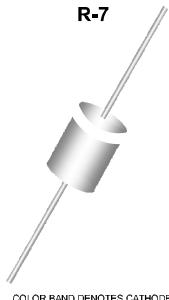
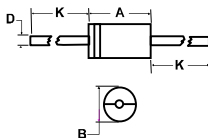


SPAL1012		Silicon Rectifier Diodes		Silicon Rectifier Diodes																															
		R-7 Package		10 Ampers																															
				1200 Volts																															
Features				<div><p>R-7</p><p>COLOR BAND DENOTES CATHODE</p></div>																															
<ul style="list-style-type: none">• Low forward voltage drop.• High current capability• High surge capability• High reliability• Ideal for solar panel PV application such as By-Pass diode																																			
Mechanical Data				<div><table><tr><th>DIM</th><th colspan="2">INCHES</th><th colspan="2">MILLIMETERS</th></tr><tr><th>A</th><td>MIN</td><td>MAX</td><td>MIN</td><td>MAX</td></tr><tr><td>A</td><td>0.291</td><td>0.299</td><td>7.40</td><td>7.60</td></tr><tr><td>B</td><td>0.311</td><td>0.319</td><td>7.90</td><td>8.10</td></tr><tr><td>D</td><td>0.059</td><td>0.063</td><td>1.50</td><td>1.60</td></tr><tr><td>K</td><td>1.000</td><td>—</td><td>25.40</td><td>—</td></tr></table></div>		DIM	INCHES		MILLIMETERS		A	MIN	MAX	MIN	MAX	A	0.291	0.299	7.40	7.60	B	0.311	0.319	7.90	8.10	D	0.059	0.063	1.50	1.60	K	1.000	—	25.40	—
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<ul style="list-style-type: none">• Cases: R-7 Axial-Leaded, Molded Plastic• Plastic package has Underwriters Laboratory Flammability Classification 94V-0• Terminals : All Terminal Leads are Readily Solderable• Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds• Weight : 2.10 grams																																			
Maximum Ratings and Electrical Characteristics																																			
(Ta = 25°C unless otherwise noted)																																			
Parameter		Symbols	SPAL1012	Units																															
Maximum Repetitive Reverse Voltage		VRRM	1200	Volts																															
Maximum RMS Voltage		VRMS	850	Volts																															
Maximum DC Blocking Voltage		VDC	1200	Volts																															
Maximum average forward rectified current (see Fig. 1)		IAV	10.0	Amps																															
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave		IFSM	400.0	Amps																															
Maximum Instantaneous Forward Voltage @ 10A (Note 1)		VF	1.1	Volts																															
Leakage current-Sperrstrom	Ta = 25°C	IR	10	uA																															
	Ta = 100°C		100																																
Typical Thermal Resistance (Note 2)		RθJA	9	°C/W																															
Storage Temperature Range		Tstg	-65 to +175	°C																															
Operating Junction Temperature		TJ	-50 to +175	°C																															

Notes: 1. Pulse test with PW=300 usec, 1% duty cycle.

2. Leads are kept at ambient temperature at a distance of 10 mm from case.

Typical Characteristics

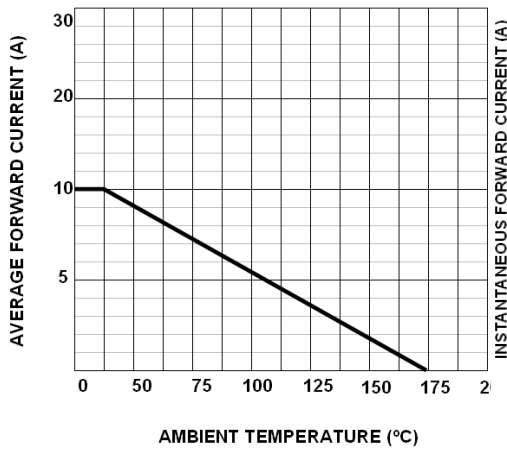


Figure 1. Forward Current Derating Curve

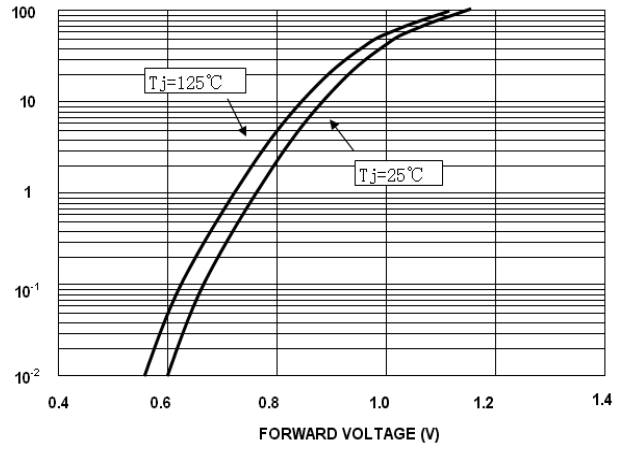


Figure 2. Forward Voltage Characteristics

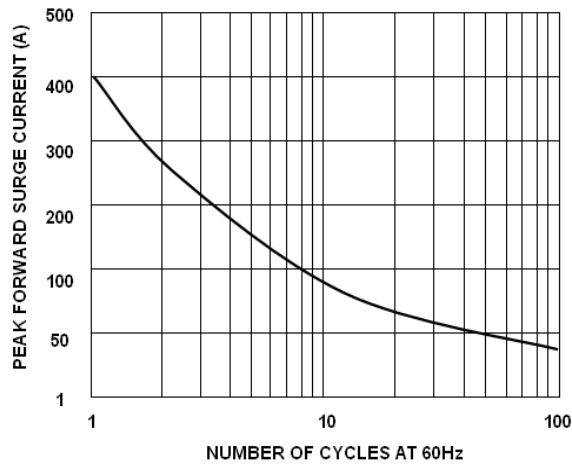


Figure 3. Non-Repetitive Surge Current



Power Semiconductor Technology

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