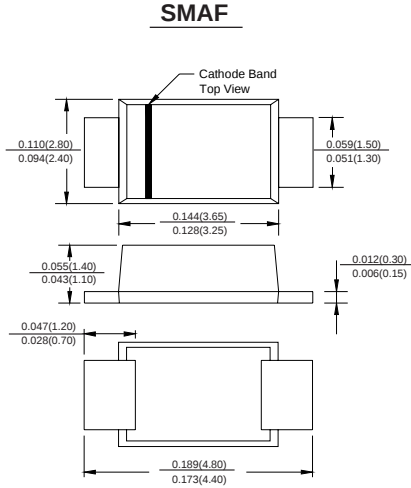




Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals
- ◆ Glass passivated chip junction

MECHANICAL DATA

Case: SMAF molded plastic body over passivated chip
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.0014 ounce, 0.038 grams

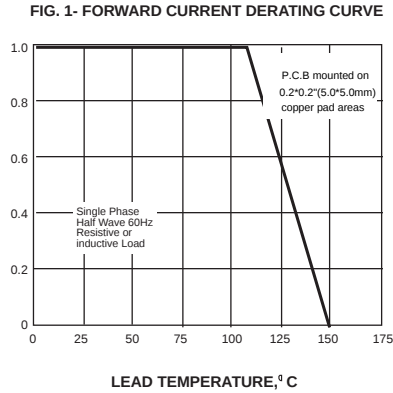
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

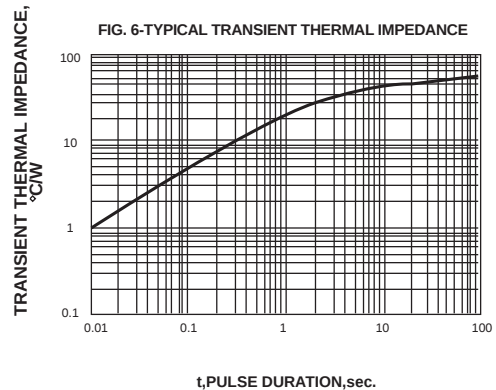
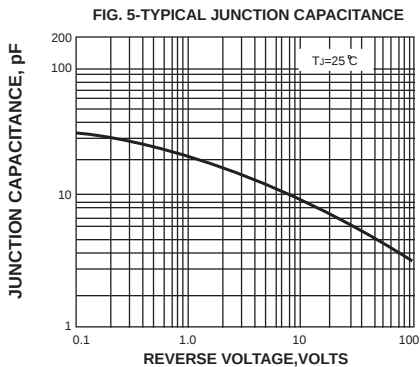
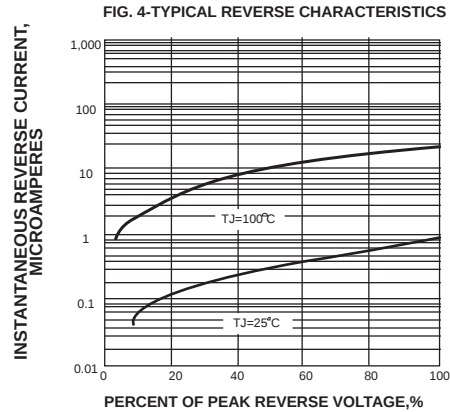
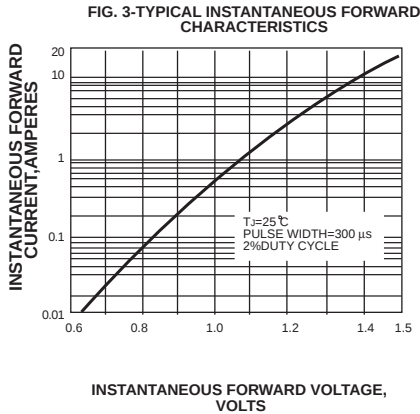
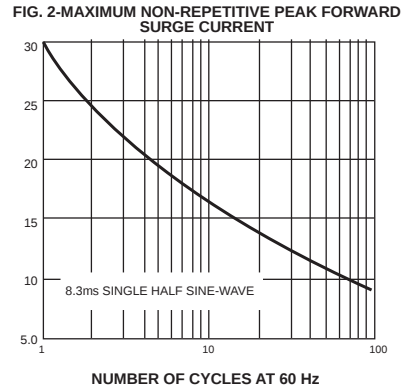
	SYMBOLS	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T _L =110°C	I _(AV)	1.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0							A
Maximum instantaneous forward voltage at 1.0A	V _F	1.3							V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	5.0 50.0							µA
Maximum reverse recovery time (NOTE 1)	t _{rr}	150				250	500		ns
Typical junction capacitance (NOTE 2)	C _J	15.0							pF
Typical thermal resistance (NOTE 3)	R _{θJA}	88.0							°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +150							°C

Note: 1. Reverse recovery condition $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$
 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 3. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

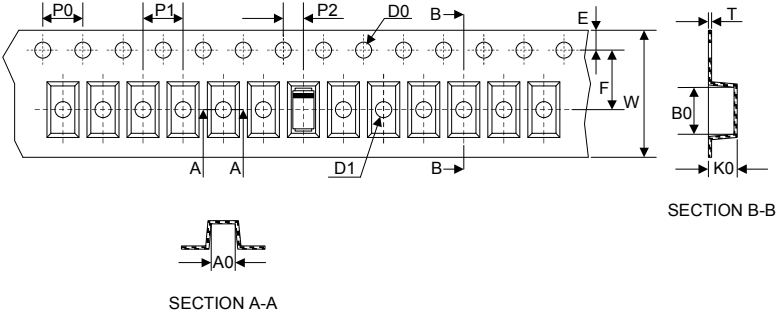
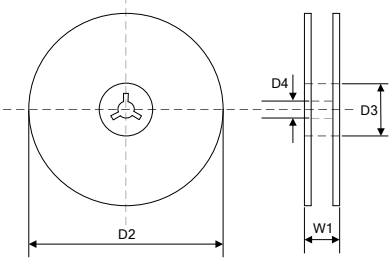
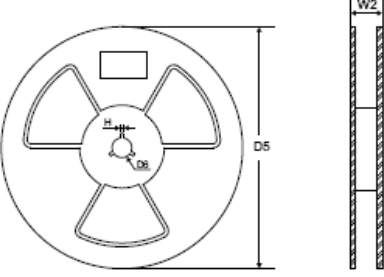
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



PEAK FORWARD SURGE CURRENT,
AMPERES



Packaging

Tape  SECTION A-A SECTION B-B	<table> <tr> <th>Symbol</th><th>Dimension (mm)</th></tr> <tr><td>W</td><td>12.00±0.20</td></tr> <tr><td>P0</td><td>4.00±0.10</td></tr> <tr><td>P1</td><td>4.00±0.10</td></tr> <tr><td>P2</td><td>2.00±0.10</td></tr> <tr><td>D0</td><td>Φ1.5±0.10</td></tr> <tr><td>D1</td><td>Φ1.5±0.10</td></tr> <tr><td>E</td><td>1.75±0.10</td></tr> <tr><td>F</td><td>5.50±0.05</td></tr> <tr><td>A0</td><td>2.79±0.10</td></tr> <tr><td>B0</td><td>5.33±0.10</td></tr> <tr><td>K0</td><td>2.55±0.15</td></tr> <tr><td>T</td><td>0.25±0.05</td></tr> </table>	Symbol	Dimension (mm)	W	12.00±0.20	P0	4.00±0.10	P1	4.00±0.10	P2	2.00±0.10	D0	Φ1.5±0.10	D1	Φ1.5±0.10	E	1.75±0.10	F	5.50±0.05	A0	2.79±0.10	B0	5.33±0.10	K0	2.55±0.15	T	0.25±0.05
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7" Reel 	<table> <tr><td>D2</td><td>Φ178.0±2.0</td></tr> <tr><td>D3</td><td>Φ50.0Min.</td></tr> <tr><td>D4</td><td>Φ13.0±0.5</td></tr> <tr><td>W1</td><td>16.0±2.0</td></tr> <tr><td colspan="2">Quantity: 3000PCS</td></tr> </table>	D2	Φ178.0±2.0	D3	Φ50.0Min.	D4	Φ13.0±0.5	W1	16.0±2.0	Quantity: 3000PCS																	
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13" Reel 	<table> <tr><td>D5</td><td>Φ330.0±2.0</td></tr> <tr><td>D6</td><td>Φ13.5±0.5</td></tr> <tr><td>H</td><td>2.5±1.0</td></tr> <tr><td>W2</td><td>16.0±2.0</td></tr> <tr><td colspan="2">Quantity: 10000PCS</td></tr> </table>	D5	Φ330.0±2.0	D6	Φ13.5±0.5	H	2.5±1.0	W2	16.0±2.0	Quantity: 10000PCS																	
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