






HERMETIC SURFACE MOUNT RECTIFIERS - MELFs

ULTRAFAST RECOVERY (25 nsec t_{rr} 70 nsec)

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAX. AVG. DC OUTPUT CURRENT		MAXIMUM REVERSE CURRENT @ PIV		MAX. PEAK FORWARD VOLTAGE (PULSED)		PEAK 1 CYCLE SURGE CURRENT	MAXIMUM REVERSE RECOVERY TIME ^②	THERM. RESIS. R _{θJC} ^③	PACKAGE STYLE
		Amps		μAmps		V	A				
		55°C	100°C	25°C	100°C						
SSM160HE SSM180HE SSM1100HE	600 800 1000	.75 .75 .75	2.0 2.0 2.0	5.0 5.0 5.0	50 50 50	1.7 1.7 1.7	.75 .75 .75	20 20 20	60 60 60	10 10 10	 MELF-1
1N6620U 1N6621U 1N6622U 1N6623U 1N6624U 1N6625U	200 400 600 800 900 1000	⑦ 2.0 2.0 2.0 1.5 1.5 1.5	⑤ 1.2 1.2 1.2 1.0 1.0 1.0	0.5 0.5 0.5 0.5 0.5 1.0	④ 150 150 150 150 150 200	1.60 1.60 1.60 1.80 1.80 1.95	2.0 2.0 2.0 1.5 1.5 1.5	20 20 20 20 20 15	30 30 30 50 50 60	20 20 20 20 20 20	 MELF-A
1N5802U 1N5804U 1N5806U	50 100 150	2.5 2.5 2.5	1.0⑦ 1.0 1.0	1.0 1.0 1.0	50 50 50	.875 .875 .875	1.0 1.0 1.0	35 35 35	25 25 25	20 20 20	MELF-A
1N5807U 1N5809U 1N5811U	50 100 150	3.0 3.0 3.0	8.0 8.0 8.0	5.0 5.0 5.0	150 150 150	.925 .925 .925	6.0 6.0 6.0	125 125 125	30 30 30	8.0 8.0 8.0	 MELF-B
1N6626U 1N6627U 1N6628U 1N6629U 1N6630U 1N6631U	200 400 600 800 900 1000	2.0 2.0 2.0 1.4 1.4 1.4	6.0 6.0 6.0 5.0 5.0 5.0	2.0 2.0 2.0 2.0 2.0 4.0	500④ 500 500 500 500 600	1.35 1.35 1.35 1.40 1.40 1.60	2.0 2.0 2.0 1.4 1.4 1.4	75 75 75 75 75 60	30 30 30 50 50 60	8.0 8.0 8.0 8.0 8.0 8.0	MELF-B

FAST RECOVERY (150 nsec t_{rr} 500 nsec)

1N5615UL 1N5617UL 1N5619UL 1N5621U 1N5623U	200 400 600 800 1000	1.0 1.0 1.0 1.0 1.0	3.0 3.0 3.0 3.0 3.0	0.5 0.5 0.5 0.5 0.5	25 25 25 25 25	1.6 1.6 1.6 1.6 1.6	3.0 3.0 3.0 3.0 3.0	25 25 25 25 25	150 150 250 250 500	10 10 10 10 10	 MELF-1
1N5415US 1N5416US 1N5417US 1N5418US 1N5419US 1N5420US	50 100 200 400 500 600	3.0 3.0 3.0 3.0 3.0 3.0	6.0 6.0 6.0 6.0 6.0 6.0	1.0 1.0 1.0 1.0 1.0 1.0	20 20 20 20 20 20	1.5 1.5 1.5 1.5 1.5 1.5	9.0 9.0 9.0 9.0 9.0 9.0	80 80 80 80 80 80	150 150 150 150 250 450	8.0 8.0 8.0 8.0 8.0 8.0	 MELF-B

(Hermetic Surface Mount Rectifiers, Continued on Next Page.)

HERMETIC SURFACE MOUNT RECTIFIERS - MELFs (Continued)

GENERAL PURPOSE (t_{rr} 2000 nsec)

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAX. AVG. DC OUTPUT CURRENT		MAXIMUM REVERSE CURRENT @ PIV		MAX. PEAK FORWARD VOLTAGE (PULSED)		PEAK 1 CYCLE SURGE CURRENT	MAXIMUM REVERSE RECOVERY TIME ^②	THERM. RESIS. $R_{\theta JEC}$ ^③	PACKAGE STYLE
		Amps		μ Amps		V	A				
		Volts	55°C	100°C	25°C	100°C					
1N5614UL	200	1.0	4.0	0.5	25	1.3	3.0	50	2000	10	MELF-1
1N5616UL	400	1.0	4.0	0.5	25	1.3	3.0	50	2000	10	
1N5618UL	600	1.0	4.0	0.5	25	1.3	3.0	50	2000	10	
1N5620U	800	1.0	4.0	0.5	25	1.3	3.0	50	2000	10	
1N5622U	1000	1.0	4.0	0.5	25	1.3	3.0	50	2000	10	
1N5550US	200	3.0	6.0	1.0	75	1.2	9.0	150	2000	8.0	MELF-B
1N5551US	400	3.0	6.0	1.0	75	1.2	9.0	150	2000	8.0	
1N5552US	600	3.0	6.0	1.0	75	1.2	9.0	150	2000	8.0	
1N5553US	800	3.0	6.0	1.0	75	1.3	9.0	150	2000	8.0	
1N5554US	1000	3.0	6.0	1.0	75	1.3	9.0	150	2000	8.0	

Notes:

-All ratings are at $T_A = 25^\circ\text{C}$ unless otherwise specified.

-Maximum operating and storage temperature range -65°C to $+175^\circ\text{C}$.

① T_{EC} = Endcap temperature. Endcaps have to be heat sunk sufficiently to remove dissipated power in order to achieve this rated current.

② t_{rr} conditions; $I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$.

③ Maximum thermal resistance, junction to endcaps.

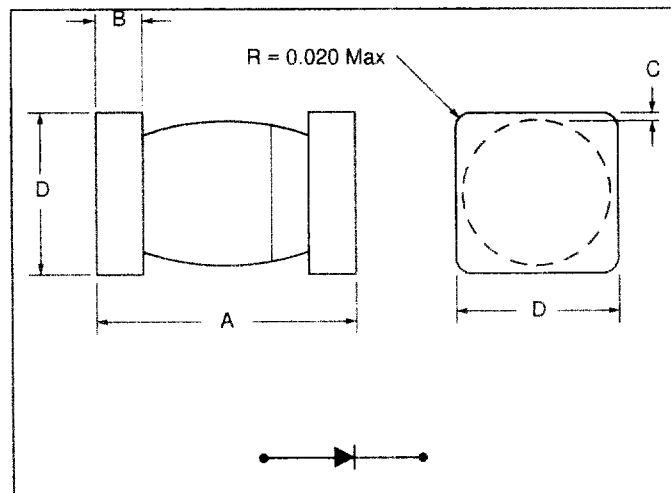
④ Rating at $T_J = 150^\circ\text{C}$.

⑤ $T_A = 25^\circ\text{C}$.

⑥ $T_{EC} = 110^\circ\text{C}$.

⑦ $T_A = 55^\circ\text{C}$.

MELF PACKAGE OUTLINES



Note: Cathode side of device is indicated by a dark band marked on body.

PACKAGE TYPE	DIMENSIONS (INCHES / MILLIMETERS)			
	A	B	C	D
MELF-1	.168/.230 4.2/5.9	0.019/.028 .48/.72	.003 Min .076 Min	.091/.128 3.4/3.8
MELF-A	.168/.200 4.2/5.1	0.019/.028 .48/.72	.003 Min .076 Min	.091/.103 2.3/3.3
MELF-B	.200/.225 5.0/5.8	0.019/.028 .48/.72	.003 Min .076 Min	.137/.148 3.4/3.8
MELF-C	.168/.300 4.27/7.62	.019/.028 .48/.72	.003 Min .076 Min	.091/.128 2.31/3.21
MELF-D	.168/.300 4.27/7.62	.019/.028 .48/.72	.003 Min .076 Min	.137/.148 3.48/3.76
MELF-E	.168/.300 4.27/7.62	.019/.028 .48/.72	.003 Min .076 Min	.175/.195 4.44/4.95