

FAST SWITCHING DEVICE - Fast Recovery Diodes - Medium Power Stud Types

Old Part Number	Data Sheet Available	New Part Number	V _{RRM} Range (Note 3) (V)	I _{F(AV)} at T _{sink} 55°C (A)	I _{F(RMS)} Max. (at T _{sink}) (A)	I _F Max. (at T _{sink}) (A)	Typical Reverse Recovered Charge and Typical Reverse Recovery @ T _J Max (50% Chord)				I _{FSM(1)} 10ms V _R £60% V _{RRM} (Note 2) (A)	I _{FSM(2)} 10ms V _R £10V (Note 2) (A)	I ² t ₍₂₎ 10ms (A ² s)	I _{RRM} @ T _J Max (mA)	V _o r @ T _J Max. (Note 1) (V) (mW)		V _{FM} at I _{FM} @ T _J Max (Note 1) (V) (A)		T _J Max (°C)	R _{th} j-c d.c.sine 120° Rect (K/W) (K/W)		R _{th} c-hs (K/W)	Wt (typ) (g)	Mounting Torque (kgfm ⁻¹)	Outline No. (Note 4)
							Q _{ra} (nC)	t _{rr} (ms)	I _{FM} (A)	di/dt (A/ms)					V _o (V)	r (mW)	V _{FM} (V)	I _{FM} (A)		d.c.sine (K/W)	120° Rect (K/W)				
SMxPCN074	N	M0104SRxx0	400-1000	104	118 (90°C)	118 (65°C)	32	0.98	100	150	1000	1150	6600	25	1.06	3.00	1.66	220	150	0.5	0.65	0.10	17	0.41 - 0.48	100A262
SMxPCN076	N	M0114SRxx0	200-400	114	118 (99°C)	118 (82°C)	11.3	0.50	100	150	1200	1380	9500	25	0.77	3.15	1.52	236	150	0.5	0.65	0.10	17	0.41 - 0.48	
SMxPCN085-1	N	M0094SRxx0	200-600	94	118 (72°C)	118 (49°C)	0.18*	0.15*	267	25	1100	1300	8450	20	1.24	1.91	1.75	267	125	0.44	0.6	0.10	17	0.41 - 0.48	
SMxPCN085-2	N	M0093SRxx0	800-1000	94	118(72°C)	118 (49°C)	0.98*	0.38*	267	25	1100	1300	8450	20	1.24	1.91	1.75	267	125	0.44	0.57	0.10	17	0.41 - 0.48	

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- Note 1 V_o Threshold Voltage
r Slope resistance) for conduction loss and heatsink calculations. (T_J = 125°C)
- Note 2 I_{FSM} (8.3ms) = I_{FSM} (10ms) x 1.066 I²t (8.3ms) = I²t (10ms) x 0.943 at initial temperature T_J max.
- Note 3 A blocking voltage derating factor of 0.13% per degree centigrade is applicable for T_J below 25°C
- Note 4 Outline 100A262 - lead types, code changes from SR/RR (PCN/R) to SP/RP (PHN/R). Lead length 135mm. (base of hexagon to centre of lug hole)