

Silicon PIN Diodes



Bare Die



Ceramic Microwave Pill



Ceramic Epoxy SMT



Ceramic Hermetic SMT



Plastic SMT



Glass Axial Leaded

Medium Power, General Purpose

Model	V_{BR}	C_J	T_L	Δj_c	TS	RS	RS
	MIN V	MAX pF	TYP nS	MAX °C/W	MAX NS	OHMS MAX	OHMS TYP
MMP7040	200	0.03	400	65	20	2.6	3.5
MMP7041	200	0.07	400	60	20	1.5	2.2
MMP7042	200	0.1	400	55	20	1.3	2.0
MMP7043	200	0.15	400	50	20	1.0	1.9
MMP7044	200	0.2	400	45	20	0.8	1.7
MMP7045	200	0.3	400	40	20	0.7	1.4
MMP7046	200	0.5	400	20	20	0.6	1.2
MMP7047	200	0.03	600	60	25	2.6	3.5
MMP7048	200	0.07	600	55	25	1.6	3.2
MMP7049	200	0.1	600	50	25	1.2	2.0
MMP7050	200	0.15	600	45	25	0.9	1.9
MMP7051	200	0.2	600	40	25	0.8	1.7
MMP7052	200	0.3	600	35	25	0.7	1.4
MMP7053	200	0.5	600	15	25	0.6	1.2
Test Conditions	@ 10 μ A	@ 40 V 1 MHz	IF = 10 mA IR = 6 mA	pulsed	RF Switching speed measured from 90% to 10% and 10% to 90% transmission	@ 75 mA, 1 GHz	@ 20 mA, 1 GHz

PIN Chips

Model	V_B	C_T	T_L	RS	Thermal Resistance
	MIN	MAX pF	MIN usec	MAX Ohms	TYP C/W
MMP7092	500	0.20	1.00	0.60	20
MMP7093	500	0.35	2.00	0.45	15
MMP7094	500	0.70	3.00	0.30	10
MMP7095	1000	0.30	3.00	1.00	15
MMP7096	1000	0.60	4.00	0.70	10
MMP7097	1000	1.30	5.00	0.40	7
Test Conditions	@ 10 μ A	@ -100 V 1 MHz	IF = 10 mA IR = 6 mA	@ 100 mA, 100 MHz	

Kilovolt Pin Pill pkg

Model	V_B	C_T	T_L	RS	Thermal Resistance	Thermal Resistance
	MIN Volts	MAX pF	MIN usec	MAX Ohms	TYP C/W	TYP C/W
MMP7098	2000	3.20	10	0.20	1.20	1.00
MMP7099	3000	4.00	20	0.25	1.20	1.00
Test Conditions	@ 10 μ A	@ -100 V 1 MHz	IF = 10 mA IR = 6 mA	@ 500 mA, 4 MHz		

Maximum Ratings	Parameters	Rating
	Operating Temperature	-55° C to + 150° C
	Storage Temperature	-65° C to + 200° C
	Reverse Breakdown	from 25 volts to 1500 volts
	Voltage	volts at 10 μ A