

MC5610-MC5619

FAST RECOVERY SILICON RECTIFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS

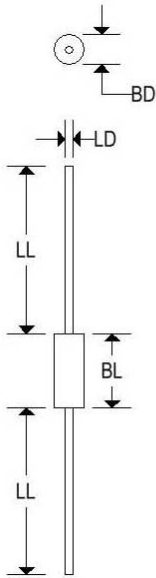
Parameter	MC5610-MC5612	MC5613-MC5616	MC5617-MC5619
Operating temperature range	-55° to 150°C	-65° to +150°C	-65° to +125°C
Storage temperature range	-65° to +175°C		
Thermal resistance	38°C/W junction to lead at 3/8" lead length from body		
Solder temperature	260°C for 10 s maximum		

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Part number	Working peak reverse voltage	RMS voltage	Average rectified current ⁽²⁾		Maximum forward voltage	Maximum reverse current	Maximum reverse current	Maximum forward surge	Maximum reverse recovery time ⁽¹⁾
	V _{RWM}	V _{R(RMS)}	V _f @ 100mA		I _R @ V _{RWM}	I _R @ V _{RWM}	@ 8.3 ms	t _{rr}	
			@ T _L = 55°C	@ T _L = 100°C					25°C
	Volts	Volts	mA	mA	Volts	µA	µA	Amps	ns
MC5610	1500	1050	790	415	3.0	1.0	25	8	300
MC5611	2000	1400	630	330	4.0	1.0	25	6	300
MC5612	2500	1750	530	280	5.0	1.0	25	5	300
MC5613	1500	1050	975	515	3.0	1.0	20	8	300
MC5614	2000	1400	790	415	4.0	1.0	20	6	300
MC5615	2500	1750	665	350	5.0	1.0	20	5	300
MC5616	3000	2100	570	300	6.0	1.0	20	4	300
MC5617	4000	2800	330	120	8.0	2.5	50	3	300
MC5618	4500	3150	300	110	9.0	2.5	50	2.7	300
MC5619	5000	3500	275	100	10.0	2.5	50	2.5	300

MECHANICAL CHARACTERISTICS

Case	Digi L
Marking	Alpha-numeric
Pin out	See below



	Digi L			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.110	-	2.794
BL	-	0.235	-	5.969
LD	0.028	0.032	0.711	0.813
LL	1.000	-	25.400	-

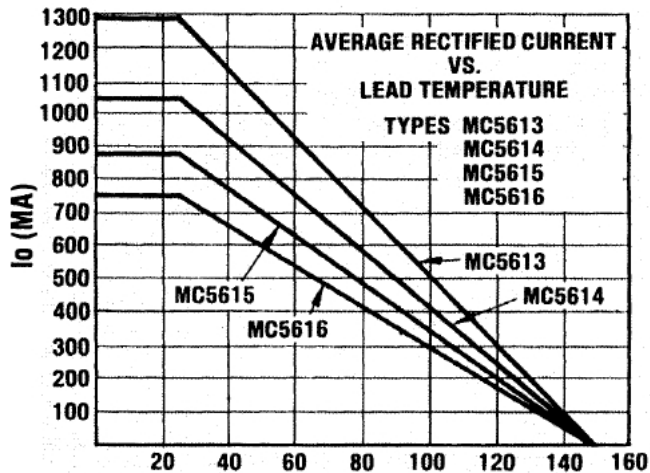


FIGURE 1
LEAD TEMPERATURE (°C) (L = 3/8 INCH)