



## Product Notice

**Notice: #090804**

**Date: August 4<sup>th</sup> 2009**

### To Our Valued Customers:

We appreciate your use of V•I Chip products. Our commitment to customer satisfaction is demonstrated by our notification to you of a product enhancement.

### Description:

Today, all surface-mount (J-lead) V•I Chip products are qualified and specified for reflow assembly at 225°C, MSL 5 according to JEDEC standard (J-STD 020C).

To allow for wider choice in assembly techniques and applicability to leaded and lead-free solder technologies, products will be rated to:

- a) 245°C, MSL 6 (4 hours 'out of bag')
- or**
- b) 225°C, MSL 5 (48 hours 'out of bag').

There are no changes to product part number or part marking. Upgrade introduction is by manufacturing datecode as below.

### Products Affected:

All surface-mount (J-lead) V.I Chip products (BCM, PRM, VTM).

*The JEDEC standard does not apply to through-hole parts as they are hand- or wave-soldered.*

### Datecodes:

The upgrade is in two stages and is product-specific. The following are the first dates from which new manufactured parts will be 245°C, MSL 6 compatible:

10-1-09 (datecode 0939) : All high voltage BCMs, all PRMs, some 48V BCMs and VTMs

1-1-10 (datecode 1001) : All remaining 48V BCMs and VTMs

Any new product introductions will be to the new specification.

See attached list for full details.

### Action Required:

No engineering evaluation is required as there are no changes to electrical, mechanical or thermal fit, form or function of the product.

Raw material stock of older (pre-10-1-09/1-1-10) must be used at 225°C before any increase in assembly temperature is made. Older stock must not be assembled at 245°C.

Application Note AN:009 "V•I Chip Soldering Recommendations" will be revised with 225°C and 245°C solder profiles and published by 9-30-09.

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**Product upgrade dates (alphanumeric listing)**

Partnumber	Part Family	Upgrade Date
B048F015T14	BCM (48V)	1/1/2010
B048F030M21	BCM (48V)	1/1/2010
B048F030T21	BCM (48V)	1/1/2010
B048F040M20	BCM (48V)	10/1/2009
B048F040T20	BCM (48V)	10/1/2009
B048F060M24	BCM (48V)	1/1/2010
B048F060T24	BCM (48V)	1/1/2010
B048F080M24	BCM (48V)	1/1/2010
B048F080T24	BCM (48V)	1/1/2010
B048F096M24	BCM (48V)	1/1/2010
B048F096T24	BCM (48V)	1/1/2010
B048F120M30	BCM (48V)	1/1/2010
B048F120T20	BCM (48V)	10/1/2009
B048F120T30	BCM (48V)	10/1/2009
B048F160M24	BCM (48V)	10/1/2009
B048F160T24	BCM (48V)	10/1/2009
B048F240M30	BCM (48V)	1/1/2010
B048F240T30	BCM (48V)	1/1/2010
B048F320M30	BCM (48V)	1/1/2010
B048F320T30	BCM (48V)	1/1/2010
B048F480M30	BCM (48V)	1/1/2010
B048F480T30	BCM (48V)	1/1/2010
B352F110T24	BCM (HV)	10/1/2009
B352F110T30	BCM (HV)	10/1/2009
B384F120T30	BCM (HV)	10/1/2009
MP028F036M12AL	PRM	10/1/2009
MV036F011M100	VTM	1/1/2010
MV036F015M080	VTM	1/1/2010
MV036F022M055	VTM	1/1/2010
MV036F030M040	VTM	10/1/2009
MV036F045M027	VTM	1/1/2010
MV036F060M020	VTM	1/1/2010
MV036F072M017	VTM	1/1/2010
MV036F090M013	VTM	10/1/2009
MV036F120M010	VTM	10/1/2009
MV036F180M007	VTM	1/1/2010
MV036F240M005	VTM	1/1/2010
MV036F360M003	VTM	1/1/2010
P024F048T12	PRM	10/1/2009
P024F048T12AL	PRM	10/1/2009
P036F048T12AL	PRM	10/1/2009
P045F048T17AL	PRM	10/1/2009
P045F048T32AL	PRM	10/1/2009
P048F048M24AL	PRM	10/1/2009
P048F048T12AL	PRM	10/1/2009
P048F048T24AL	PRM	10/1/2009

Partnumber	Part Family	Upgrade Date
V048F015M100	VTM	1/1/2010
V048F015T100	VTM	1/1/2010
V048F020M080	VTM	1/1/2010
V048F020T080	VTM	1/1/2010
V048F030M070	VTM	1/1/2010
V048F030T070	VTM	1/1/2010
V048F040M050	VTM	10/1/2009
V048F040T050	VTM	10/1/2009
V048F060M040	VTM	1/1/2010
V048F060T040	VTM	1/1/2010
V048F080M030	VTM	1/1/2010
V048F080T030	VTM	1/1/2010
V048F096M025	VTM	1/1/2010
V048F096T025	VTM	1/1/2010
V048F120M025	VTM	10/1/2009
V048F120T025	VTM	10/1/2009
V048F160M015	VTM	10/1/2009
V048F160T015	VTM	10/1/2009
V048F240M012	VTM	1/1/2010
V048F240T012	VTM	1/1/2010
V048F320M009	VTM	1/1/2010
V048F320T009	VTM	1/1/2010
V048F480M006	VTM	1/1/2010
V048F480T006	VTM	1/1/2010
VIB0001TFJ	BCM (HV)	10/1/2009
VIB0002TFJ	BCM (HV)	10/1/2009
VIB0003TFJ	BCM (HV)	10/1/2009
VIB0010TFJ	BCM (HV)	10/1/2009
VIB0101MHJ	BCM (48V)	10/1/2009
VIB0101THJ	BCM (48V)	10/1/2009
VIV0005TFJ	VTM	10/1/2009
VIV0007TFJ	VTM	10/1/2009
VIV0101MHJ	VTM	10/1/2009
VIV0101THJ	VTM	10/1/2009
VIV0102MHJ	VTM	10/1/2009
VIV0102THJ	VTM	10/1/2009
VIV0103MHJ	VTM	10/1/2009
VIV0103THJ	VTM	10/1/2009
VIV0104MHJ	VTM	10/1/2009
VIV0104THJ	VTM	10/1/2009
VIV0105MHJ	VTM	10/1/2009
VIV0105THJ	VTM	10/1/2009
VIZ0002	BCM (HV)	10/1/2009
VIZ0017	PRM	10/1/2009
VIZ0020	BCM (HV)	10/1/2009
VIZ0032	PRM	10/1/2009
VIZ0033	VTM	10/1/2009
VIZ0034	VTM	10/1/2009
VMB0004MFJ	BCM (HV)	10/1/2009



**Product upgrade dates (by Part Family)**

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B048F015T14	BCM (48V)	1/1/2010
B048F030M21	BCM (48V)	1/1/2010
B048F030T21	BCM (48V)	1/1/2010
B048F040M20	BCM (48V)	10/1/2009
B048F040T20	BCM (48V)	10/1/2009
B048F060M24	BCM (48V)	1/1/2010
B048F060T24	BCM (48V)	1/1/2010
B048F080M24	BCM (48V)	1/1/2010
B048F080T24	BCM (48V)	1/1/2010
B048F096M24	BCM (48V)	1/1/2010
B048F096T24	BCM (48V)	1/1/2010
B048F120M30	BCM (48V)	1/1/2010
B048F120T20	BCM (48V)	10/1/2009
B048F120T30	BCM (48V)	10/1/2009
B048F160M24	BCM (48V)	10/1/2009
B048F160T24	BCM (48V)	10/1/2009
B048F240M30	BCM (48V)	1/1/2010
B048F240T30	BCM (48V)	1/1/2010
B048F320M30	BCM (48V)	1/1/2010
B048F320T30	BCM (48V)	1/1/2010
B048F480M30	BCM (48V)	1/1/2010
B048F480T30	BCM (48V)	1/1/2010
VIB0101MHJ	BCM (48V)	10/1/2009
VIB0101THJ	BCM (48V)	10/1/2009
B352F110T24	BCM (HV)	10/1/2009
B352F110T30	BCM (HV)	10/1/2009
B384F120T30	BCM (HV)	10/1/2009
VIB0001TFJ	BCM (HV)	10/1/2009
VIB0002TFJ	BCM (HV)	10/1/2009
VIB0003TFJ	BCM (HV)	10/1/2009
VIB0010TFJ	BCM (HV)	10/1/2009
VIZ0002	BCM (HV)	10/1/2009
VIZ0020	BCM (HV)	10/1/2009
VMB0004MFJ	BCM (HV)	10/1/2009
MP028F036M12AL	PRM	10/1/2009
P024F048T12	PRM	10/1/2009
P024F048T12AL	PRM	10/1/2009
P036F048T12AL	PRM	10/1/2009
P045F048T17AL	PRM	10/1/2009
P045F048T32AL	PRM	10/1/2009
P048F048M24AL	PRM	10/1/2009
P048F048T12AL	PRM	10/1/2009
P048F048T24AL	PRM	10/1/2009
VIZ0017	PRM	10/1/2009
VIZ0032	PRM	10/1/2009

Partnumber	Part Family	Upgrade Date
MV036F011M100	VTM	1/1/2010
MV036F015M080	VTM	1/1/2010
MV036F022M055	VTM	1/1/2010
MV036F030M040	VTM	10/1/2009
MV036F045M027	VTM	1/1/2010
MV036F060M020	VTM	1/1/2010
MV036F072M017	VTM	1/1/2010
MV036F090M013	VTM	10/1/2009
MV036F120M010	VTM	10/1/2009
MV036F180M007	VTM	1/1/2010
MV036F240M005	VTM	1/1/2010
MV036F360M003	VTM	1/1/2010
V048F015M100	VTM	1/1/2010
V048F015T100	VTM	1/1/2010
V048F020M080	VTM	1/1/2010
V048F020T080	VTM	1/1/2010
V048F030M070	VTM	1/1/2010
V048F030T070	VTM	1/1/2010
V048F040M050	VTM	10/1/2009
V048F040T050	VTM	10/1/2009
V048F060M040	VTM	1/1/2010
V048F060T040	VTM	1/1/2010
V048F080M030	VTM	1/1/2010
V048F080T030	VTM	1/1/2010
V048F096M025	VTM	1/1/2010
V048F096T025	VTM	1/1/2010
V048F120M025	VTM	10/1/2009
V048F120T025	VTM	10/1/2009
V048F160M015	VTM	10/1/2009
V048F160T015	VTM	10/1/2009
V048F240M012	VTM	1/1/2010
V048F240T012	VTM	1/1/2010
V048F320M009	VTM	1/1/2010
V048F320T009	VTM	1/1/2010
V048F480M006	VTM	1/1/2010
V048F480T006	VTM	1/1/2010
VIV0005TFJ	VTM	10/1/2009
VIV0007TFJ	VTM	10/1/2009
VIV0101MHJ	VTM	10/1/2009
VIV0101THJ	VTM	10/1/2009
VIV0102MHJ	VTM	10/1/2009
VIV0102THJ	VTM	10/1/2009
VIV0103MHJ	VTM	10/1/2009
VIV0103THJ	VTM	10/1/2009
VIV0104MHJ	VTM	10/1/2009
VIV0104THJ	VTM	10/1/2009
VIV0105MHJ	VTM	10/1/2009
VIV0105THJ	VTM	10/1/2009
VIZ0033	VTM	10/1/2009
VIZ0034	VTM	10/1/2009