

Product / Process Change Notice

Parts Affected:

CBRSDSH5-40 and CBRSDSH5-60 full wave Schottky bridge rectifiers manufactured in the epoxy molded SMDIP case.

Extent of Change:

The CBRSDSH5-40 and CBRSDSH5-60 are being discontinued and replaced with the CBRSDSH2-40 and CBRSDSH2-60.

Reason for Change:

The CBRSDSH5-40 and CBRSDSH5-60 were released with an Average Forward Current rating of 5 amps at $T_A=60^\circ\text{C}$, based on pulse testing. Bridge rectifiers need to be rated at I_O (Average Forward Current) and at $T_A=25^\circ\text{C}$. Accordingly, the proper rating for this device is $I_O=2$ amps at $T_A=25^\circ\text{C}$. The characteristics of I_F test conditions up to 5 amps (pulsed) and V_F limits will be unchanged.

Effect of Change:

There is no change in the internal construction of the device including the chip size. The CBRSDSH2-40 and CBRSDSH2-60 are being manufactured identically to the CBRSDSH5-40 and CBRSDSH5-60; the change affects the Average Forward Current rating (I_O) which is being changed from 5A to 2A, hence the part # change.

Qualification:

Devices were mounted on a 2" square FR4 PCB using the SMDIP minimum recommended mounting pad geometry. AC voltage was applied and varied until the average output current I_O of 2 amps at $T_A=25^\circ\text{C}$ was achieved and held continuously, with no failures.

Effective Date of Change:

Q4 2011.

Sample Availability:

Please contact Salesperson or Manufacturer's Representative.