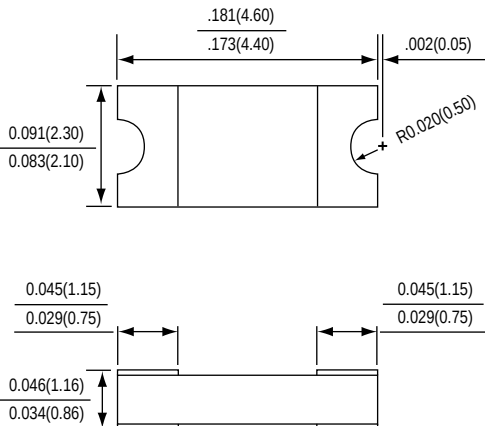


	SCD32L THRU SCD34L SURFACE MOUNT LOW VF SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 40 VoltsForward Current - 3.0 Amperes																																																															
	PATENTED 2010  *Dimensions in inches and (millimeters) SuperChipTM  FEATURES * Lead free product * Leadless chip form , no lead damage * Lead-free solder joint , no wire bond & lead frame * Plastic package has Underwriters Laboratory Flammability Classification 94V-0 * For surface mounted applications * Low profile package * Built-in strain relief * Metal to silicon rectifier , majority carrier conduction * Low power loss , High efficiency * High current capability , Super low VF drop * High surge capacity * For using in low voltage high frequency switching power supply, inverters , free wheeling , and polarity protection applications MECHANICAL DATA Case : Packed with FRP substrate and epoxy underfilled Terminals : Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026. Polarity : Laser marking Weight : 0.02 gram																																																															
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS <table><tr><th>Ratings at 25 °C ambient temperature unless otherwise specified.</th><th>SYMBOLS</th><th>SCD32L</th><th>SCD34L</th><th>UNITS</th></tr><tr><td>Maximum repetitive peak reverse voltage</td><td>VRRM</td><td>20</td><td>40</td><td>Volts</td></tr><tr><td>Maximum RMS voltage</td><td>VRMS</td><td>14</td><td>28</td><td>Volts</td></tr><tr><td>Maximum DC blocking voltage</td><td>VDC</td><td>20</td><td>40</td><td>Volts</td></tr><tr><td>Maximum average forward rectified current (SEE FIG.1)</td><td>I (AV)</td><td colspan="2">3 .0</td><td>Amps</td></tr><tr><td>Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)</td><td>IFSM</td><td colspan="2">80</td><td>Amps</td></tr><tr><td>Maximum instantaneous forward voltage at 3.0 A (NOTE 1)</td><td>VF</td><td>0.40</td><td>0.42</td><td>Volts</td></tr><tr><td rowspan="2">Maximum DC reverse current (NOTE 1) @Tj=25 °C at rated DC blocking voltage @Tj=80 °C</td><td rowspan="2">IR</td><td colspan="2">1.0</td><td rowspan="2">mA</td></tr><tr><td colspan="2">30</td></tr><tr><td rowspan="2">Typical thermal resistance (NOTE 2)</td><td>R θJA</td><td colspan="2">55</td><td rowspan="2">°C / W</td></tr><tr><td>R θJL</td><td colspan="2">17</td></tr><tr><td>Operating junction temperature range</td><td>TJ</td><td colspan="2">-55 to +125</td><td>°C</td></tr><tr><td>Storage temperature range</td><td>TSTG</td><td colspan="2">-55 to +150</td><td>°C</td></tr></table>					Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	SCD32L	SCD34L	UNITS	Maximum repetitive peak reverse voltage	VRRM	20	40	Volts	Maximum RMS voltage	VRMS	14	28	Volts	Maximum DC blocking voltage	VDC	20	40	Volts	Maximum average forward rectified current (SEE FIG.1)	I (AV)	3 .0		Amps	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80		Amps	Maximum instantaneous forward voltage at 3.0 A (NOTE 1)	VF	0.40	0.42	Volts	Maximum DC reverse current (NOTE 1) @Tj=25 °C at rated DC blocking voltage @Tj=80 °C	IR	1.0		mA	30		Typical thermal resistance (NOTE 2)	R θJA	55		°C / W	R θJL	17		Operating junction temperature range	TJ	-55 to +125		°C	Storage temperature range	TSTG	-55 to +150		°C
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NOTES : (1) Pulse test width PW=300usec , 1% duty cycle.

(2) Mounted on P.C. board with 0.2 x 0.2"(5.0 x5.0mm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES SCD32L THRU SCD34L

FIG.1 - FORWARD CURRENT DERATING CURVE

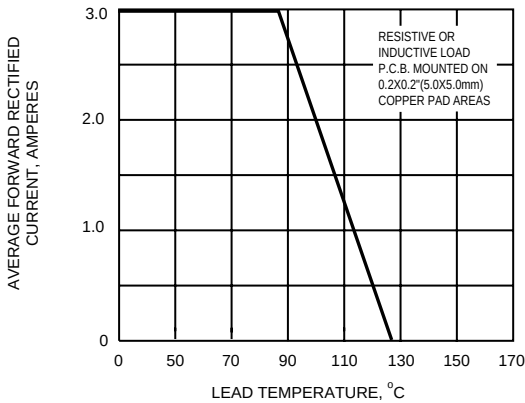


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

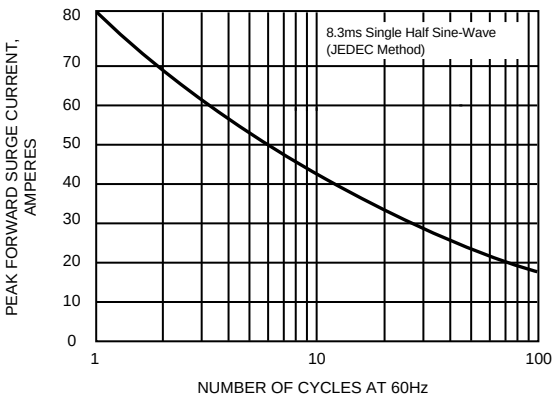


FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

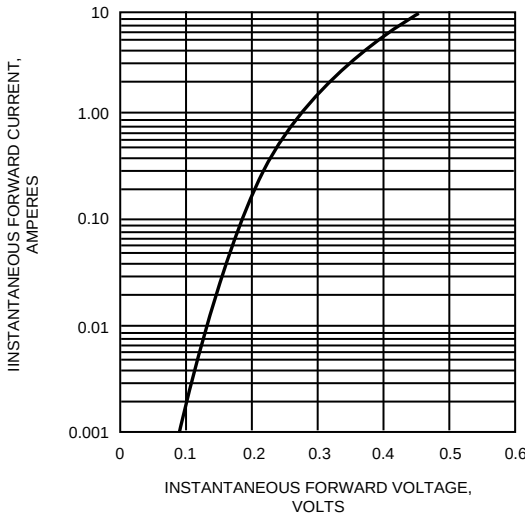


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

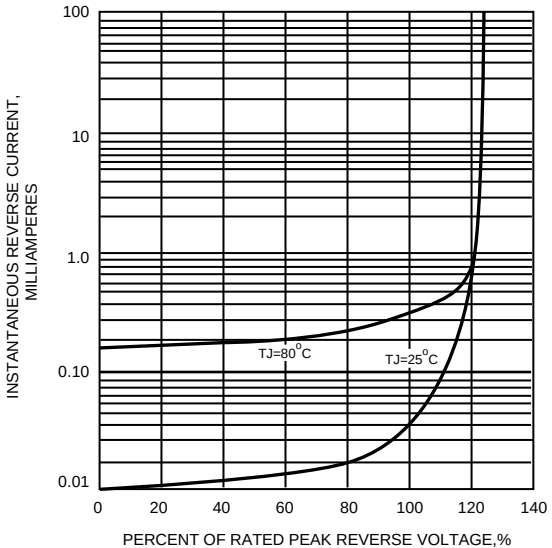


FIG.5 - TYPICAL JUNCTION CAPACITANCE

