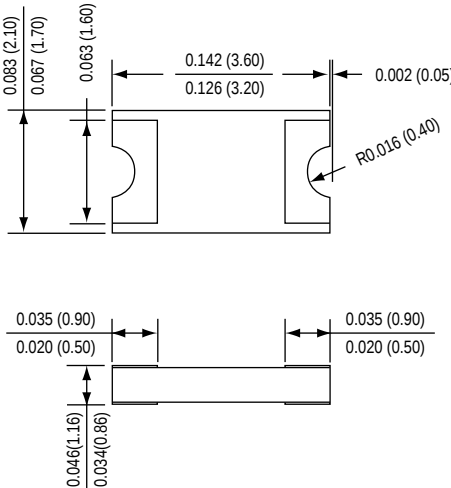


	PRELIMINARY SSCD052 THRU SSCD054				
	SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER				
Reverse Voltage - 20 to 40 Volts		Forward Current - 500 mA			
PATENTED 1206  *Dimensions in inches and (millimeters) SuperChip TM	 FEATURES * Lead free product * Leadless chip form , no lead damage * Lead-free solder joint , no wire bond & lead frame * Low VF , High surge capability * 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 * 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 : 0.012 gram				
	MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS				
	Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	SSCD052	SSCD054	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)	500		mA	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	15		Amps	
Maximum instantaneous forward voltage at 0.5 A (NOTE 1)	VF	0.42	0.48	Volts	
Maximum DC reverse current (NOTE 1) @TJ=25°C at rated DC blocking voltage @TJ=100°C	IR	20		uA	
		10		mA	
Typical thermal resistance (NOTE 2)	R θJA	88		°C / W	
	R θJL	28			
Operating junction and Storage temperature range	TJ,TSTG	-55 to +125		°C	

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 SSCD052 THRU SSCD054

FIG.1 - FORWARD CURRENT DERATING CURVE

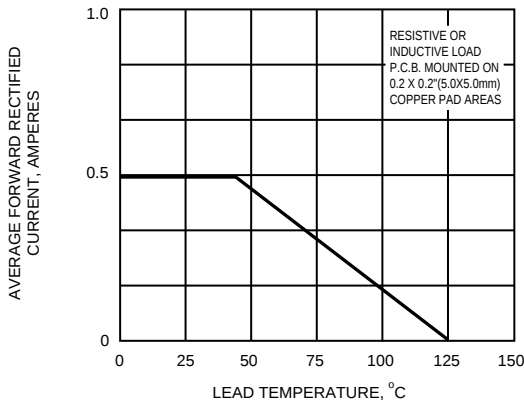


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

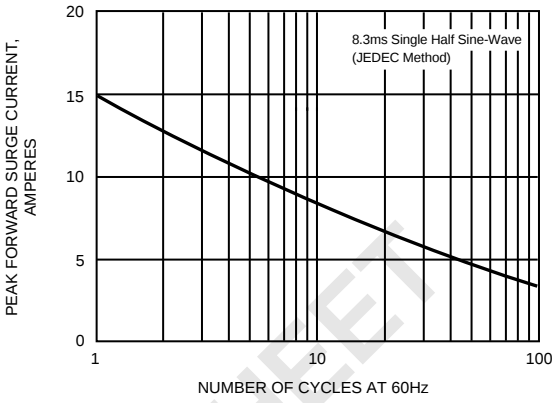


FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

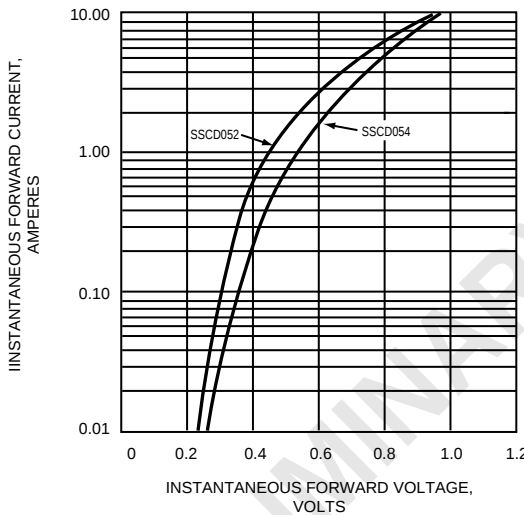


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

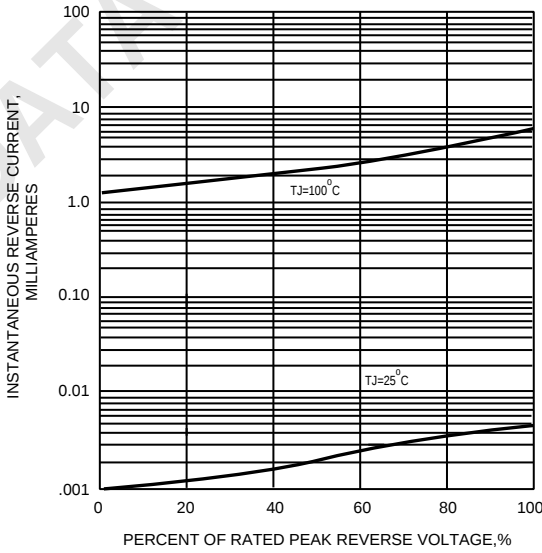


FIG.5 - TYPICAL JUNCTION CAPACITANCE

