飞仕龙达 FEISHILONGDA

AUTO 汽车管 Automotive Diodes

[SCB50L-SCB50H]

特性/机械性能： FEATURES/MECHANICAL DATE

◆大电流承受能力.High current capability

◆低成本.Low cost

◆正向压降低.Low forward voltage drop

◆低漏电. Low leakage current

◆高浪涌承受能力.High surge current capability

◆小铜粒：Φ0.258 (6.55) x 0.0394(1.0)厚 Small copper：Φ0.258 (6.55) x 0.0394(1.0)Thick

◆大铜粒：Φ0.285(7.23) x 0.0295(0.75)厚 Large copper：Φ0.285(7.23) x 0.0295(0.75)Thick

◆外观信息：Φ0.285 (7.23) x 0.08 (2.05±0.05)厚

Outline information：Φ0.285 (7.23) x 0.08 (2.05±0.05)Thick

◆极 性：大铜粒端为阴极。 Polarity：Large copper cathode

◆反向重复峰值浪涌电流IRSM=50A/L;

T=80ms方波 IRSM=35A/M;

IRSM=24A/H;

极限值和电参数： MAXIMUM RATINGS AND CHARACTERISTICS

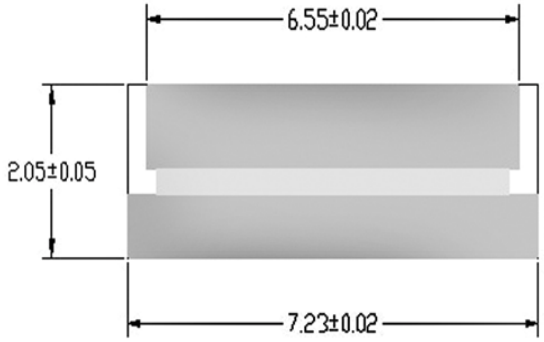
TA= 25℃除非另有规定。单相,正半弦波,60HZ,阻抗或电感负载.为电容装载,减少电流的20%。

Rating at 25℃ ambient temperature unless otherwise specified. Single phase，half wave，60HZ，resistive or inductive load。For capacitive load，derate current by 20%

型 号TYPE	SYMBOL	SCB50L	SCB50M	SCB50H	UNITS
最大峰值反向电压 Maximum Current Peak Reverse Voltage	VRRM	16	20	28	V
最大反向有效值电压 Working Peak Reverse Voltage	VRMS	16	20	28	V
最大直流截止电压 Maximum DC Blocking Voltage	VDC	16	20	28	V
击穿电压最小值 Breakdown voltage Min@IBR=100mA/TA=25℃	VBRL	20	24	36	V
击穿电压最大值 Breakdown voltage Max@IBR=100mA/TA=25℃	VBRH	26	32	42	V
最大正向平均整流电流Ta=125℃， Maximum Average Forward Rectified Current	IF（AV）	50			A
峰值正向浪涌电流 Peak Forward Surge Current 8.3ms Single Sine-wave on Rated Load (JEDEC Method)	IFSM	500			A
最大瞬间正向电压@100A Maximum Instantaneous Forward Voltage Drop at 100A DC	VF	1.02			V
最大反向直流电流 Ta= 25℃ Maximum DC Reverse Current at Rated DCBlocking Voltage Ta=150℃	IR	1.0 100			μA
工作及储存温度范围 Operating AND Storage Temperature Range	TJ, TSTG	-55～+150			℃

注 释：在1MHz下测量，施加4.0V D.C的反向电压. NOTE：Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

产品外形尺寸： Product appearance size



特性曲线图： RATINGS AND CHARACTERISTIC CURVES

FIG. 1 –最大正向平均电流降额
FIG. 1 –MAXIMUM AVERAGE FORWARD CURRENT DERATING

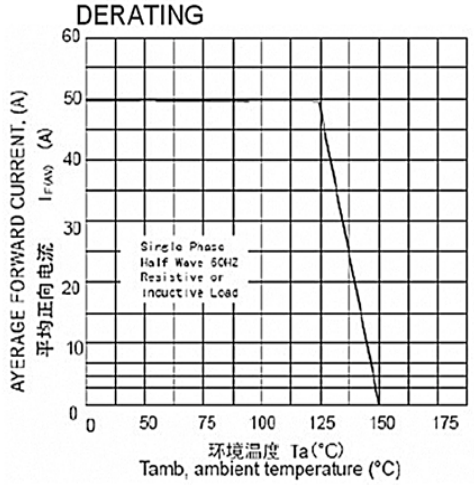


FIG. 2 –最大非重复正向浪涌电流
FIG. 2 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

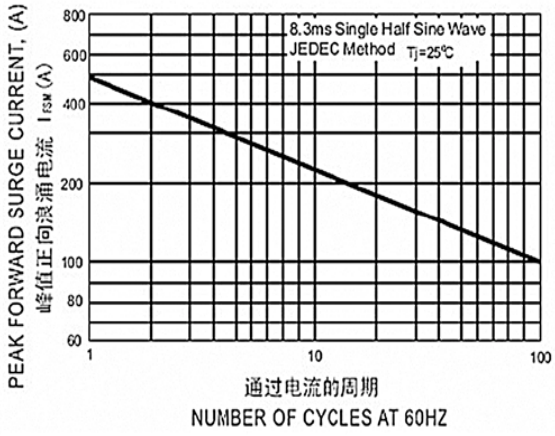


FIG. 3 –脉冲波形
FIG. 3 – PULSE WAVEFORM

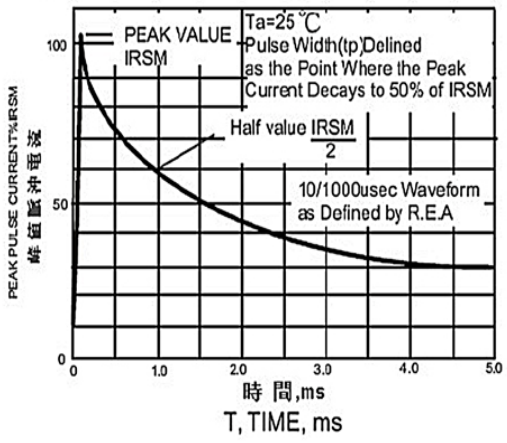


FIG. 4–正向特性曲线(典型)
FIG.4 – TYPICA FORWARD CHARACTERISTICS