



Maximum Ratings and Electrical Characteristics

(T_c = 25°C unless otherwise noted)

MAXIMUM RATINGS and ELECTRICAL CHARACTERISTICS(TC=25°C unless otherwise moted)				
PARAMETER	TEST CONDITIONS		SYMBOL	UNIT
Maximum repetitive peak reverse voltage			VRRM	100 V
Working peak reverse voltage			VRWM	100 V
Maximum DC blocking voltage			VDC	100 V
Maximum average forward rectified current at Tc=105°C total device per diode			IF(AV)	30 A 15
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			IFSM	250 A
Peak repetitive reverse current per leg at tp=2.0us , 1KHz			Irrm	1.0 A
Voltage rate of change (rated VR)			DV/dt	10000 V/us
Operating junction temperature range			TJ	-65 to+150 °C
Storage temperature range			TSTG	-65 to+150 °C
Isolation voltage (ITO-220AB only) from terminal to heatsink t = 1 min			VAC	1500 V
Maximum instantaneous forward voltage per leg	IF=15A IF=15A	TC=25°C TC=125°C	VF	0.85 V 0.75
Maximum reverse current per leg at working peak Reverse voltage		TJ=25°C TJ=100°C	IR	500 uA 7 mA

Thermal Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Max	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	4.0	°C /W
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5	°C /W

Note:

1. Screw mounting with 4-40 screw, where washer diameteris≤4.9mm(0.19 ")
2. Pulse test:300us pulse width,1% duty cycle



Rating and Characteristic Curves

FIG.1 - FORWARD CURRENT DERATING CURVE

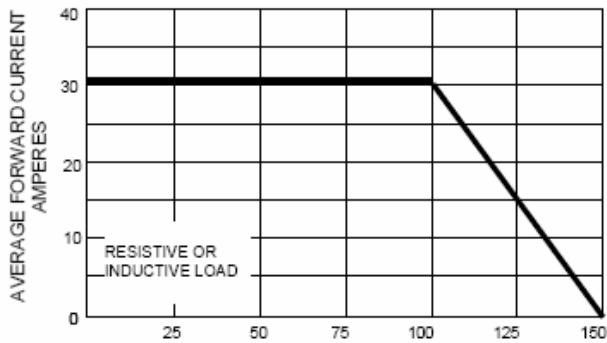


Figure 2
Peak Forward Surge Current

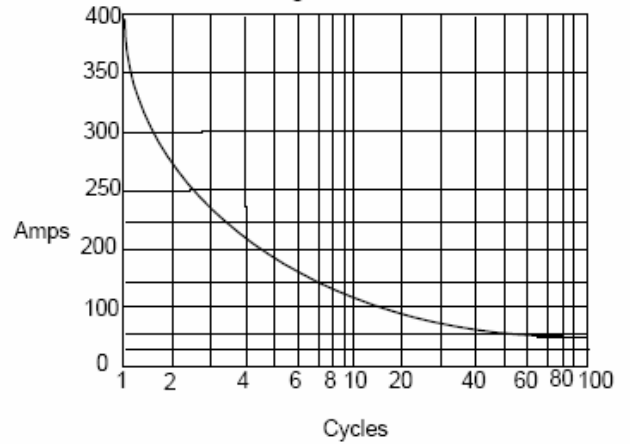
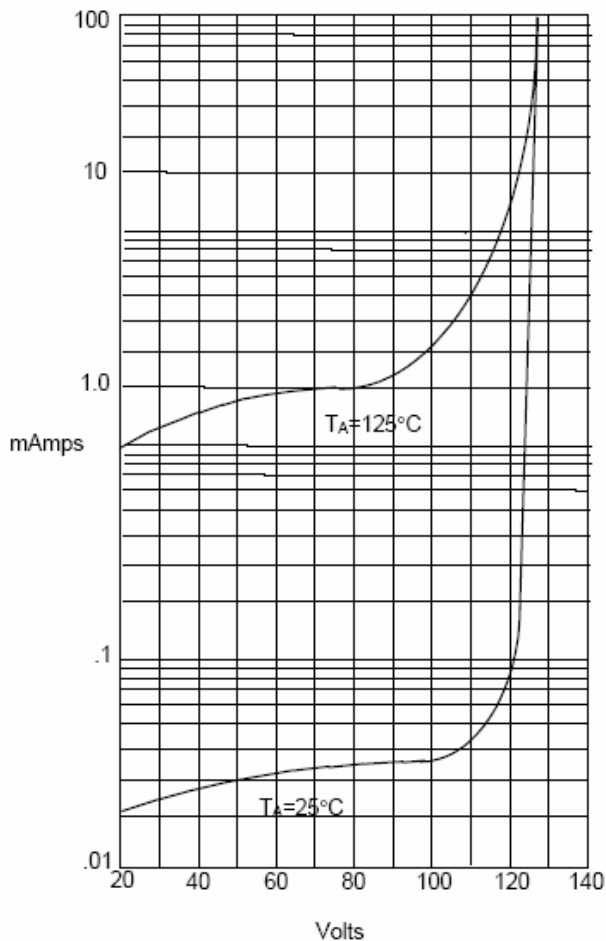
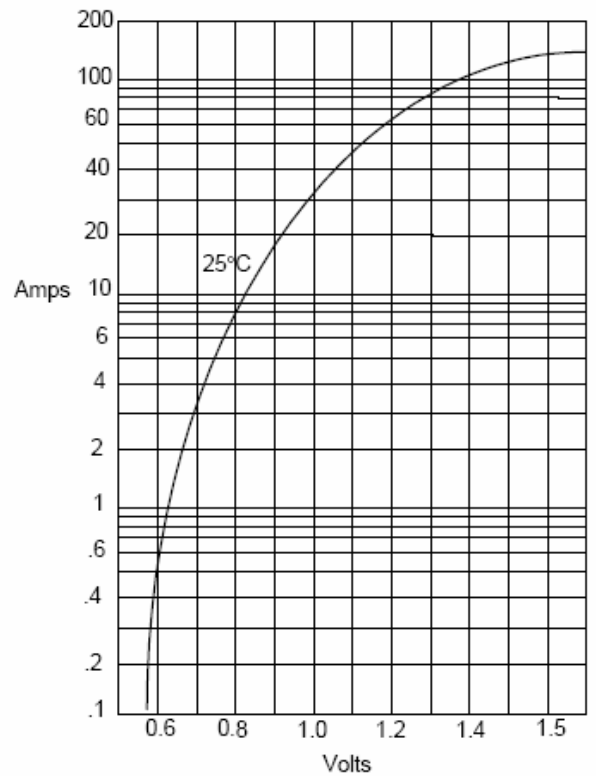


Figure 3
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

Figure 4
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts