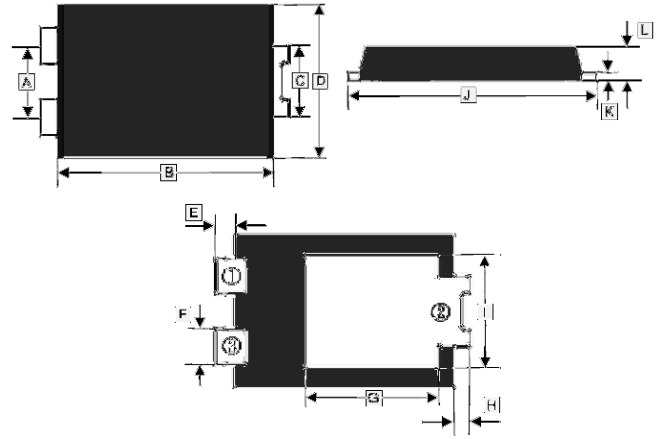


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

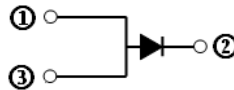
- Schottky Barrier chip
- High thermal reliability
- Patented Super Barrier Rectifier Technology
- High forward surge capability
- Ultra low power loss and high efficiency
- Excellent high temperature stability
- Plastic material-UL flammability 94V-0

TO-277D



PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-277D	5K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.65	1.95	G	3.25	3.85
B	5.3	5.5	H	0.45	0.65
C	1.7	1.9	I	2.9	3.2
D	3.8	4.2	J	6.4	6.6
E	0.45	0.65	K	0.3	0.45
F	0.8	1.0	L	1.0	1.2

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(T_A=25°C, unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

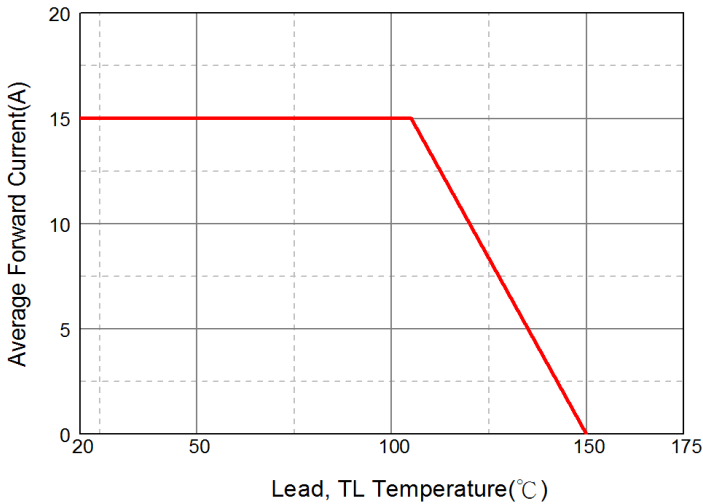
Parameter	Symbol	Rating	Unit
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	150	V
Maximum Working Peak Reverse Voltage	V _{RWM}	150	V
Maximum DC Blocking Voltage	V _{DC}	150	V
Maximum RMS Rectified Voltage	V _{RMS}	105	V
Maximum Average Rectified Output Current	I _O	15	A
Non-Repetitive Peak Forward Surge Current@ 8.3 ms single half sine-wave, superimposed on rated load (JEDEC method)	I _{FSM}	250	A
I ² t Rating for Fusing@ t<8.3ms	I ² t	259.375	A ² S
Typical Thermal Resistance from Junction to Ambient	R _{θJA}	110	°C / W
Typical Thermal Resistance from Junction to Lead ²	R _{θJL}	3.5	°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS

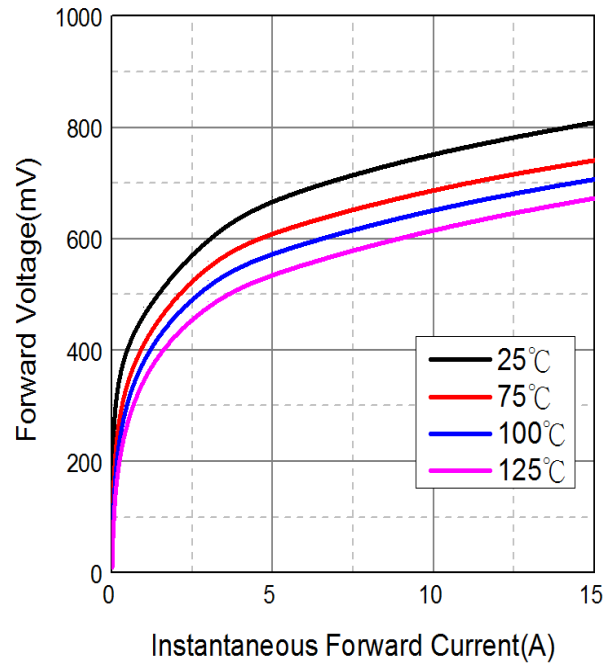
Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Forward Voltage Drop	V _{FM}	0.48	-	V	I _F =1A, T _A =25°C
		0.68	-		I _F =5A, T _A =25°C
		0.8	0.85		I _F =15A, T _A =25°C
		0.66	-		I _F =15A, T _A =125°C
Peak Reverse Current at Rated DC Blocking Voltage	I _R	-	0.3	mA	T _A =25°C
		-	15		T _A =100°C
		7.5	-		T _A =125°C

CHARACTERISTIC CURVES

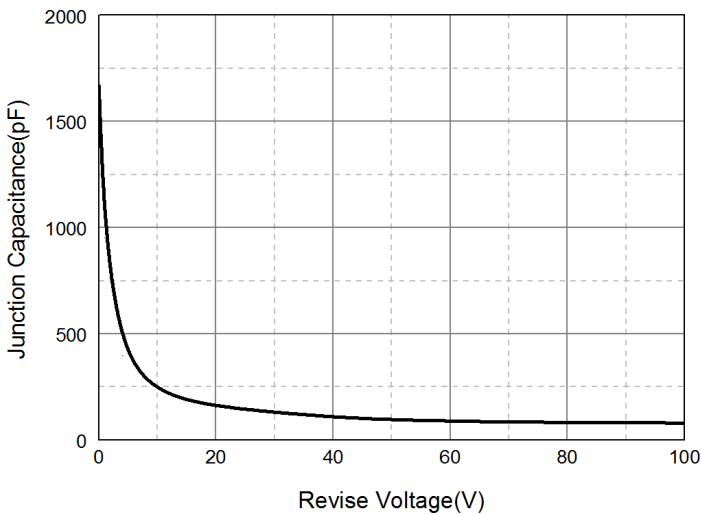
Typical Forward Current Derating Curve



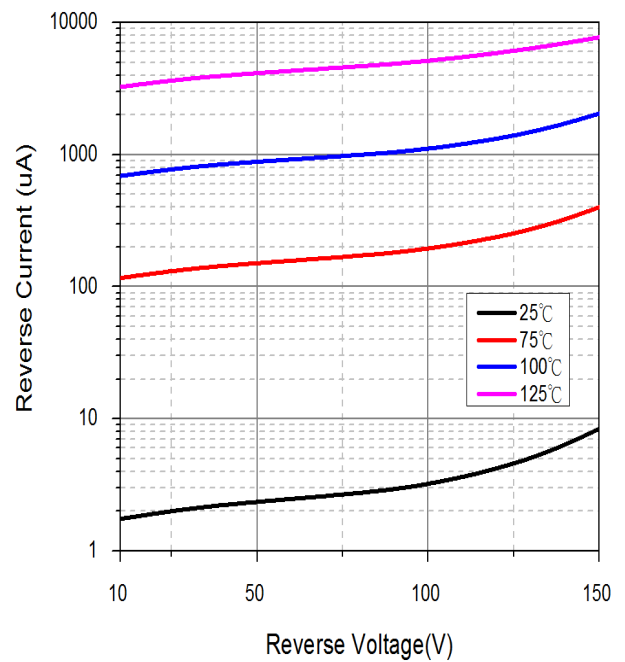
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non-Repetitive Forward Surge Current

