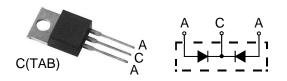
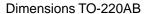
STPR2010CT thru STPR2020CT

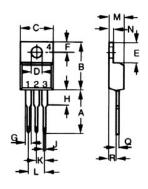
Ultra Fast Recovery Diodes



A=Anode, C=Cathode, TAB=Cathode

	VRRM	VRMS	VDC
	V	V	V
STPR2010CT	100	70	100
STPR2020CT	200	140	200





Dim.	Inches		Milimeter	
	Min.	Max.	Min.	Max.
Α	0.500	0.550	12.70	13.97
В	0.580	0.630	14.73	16.00
С	0.390	0.420	9.91	10.66
D	0.139	0.161	3.54	4.08
Е	0.230	0.270	5.85	6.85
F	0.100	0.125	2.54	3.18
G	0.045	0.065	1.15	1.65
Н	0.110	0.230	2.79	5.84
J	0.025	0.040	0.64	1.01
K	0.100	BSC	2.54	BSC
М	0.170	0.190	4.32	4.82
N	0.045	0.055	1.14	1.39
Q	0.014	0.022	0.35	0.56
R	0.090	0.110	2.29	2.79

Symbol	Characteristics		Maximum Ratings	Unit
I(AV)	Maximum Average Forward Rectified	d Current @Tc=95°C	20	А
İFSM	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)		125	A
VF	Maximum Forward Voltage At Pulse Width=300us 2% Duty Cycle	IF=10A @TJ=25°C IF=10A @TJ=125°C IF=20A @TJ=25°C IF=20A @TJ=125°C	1.1 1.0 1.25 1.20	V
lR	Maximum DC Reverse Current At Rated DC Blocking Voltage	@TJ=25°C @TJ=100°C	5 100	uA
C¹	Typical Junction Capacitance Per Element (Note 1)		100	pF
TRR	Maximum Reverse Recovery Time (Note 2)		35	ns
Rejc	Typical Thermal Resistance (Note 3)		1.5	°C/W
T _J , Тsтg	Operating And Storage Temperature Range		-55 to +150	°C

NOTES: 1. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.

- 2. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.
- 3. Thermal Resistance Junction To Case.

FEATURES

- * Glass passivated chip
- * Superfast switching time for high efficiency
- * Low forward voltage drop and high current capability
- * Low reverse leakage current
- * High surge capacity

MECHANICAL DATA

- * Case: TO-220AB molded plastic
- * Polarity: As marked on the body
- * Weight: 0.08 ounces, 2.24 grams
- * Mounting position: Any



STPR2010CT thru STPR2020CT

Ultra Fast Recovery Diodes

