

Schottky Diodes Reverse Voltage-40to200v Forward current-30A

Features

Schottky chip

Low forward voltage drop

Ldeal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability

Mechanical Data

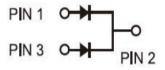
Package: TO-220AB,TO-220F,TO-263
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





TO-220AB

Maximum Ratings (Ta=25 $^{\circ}$ C Unless otherwise

Type Number	SYMBOL	SBTL 30100	Umit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V	
Maximum RMS Voltage	V _{RMS}	70	V	
Maximum DC Blocking Voltage	V_{DC}	100	V	
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$	IO _(AV)	30.0	Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	230.0	Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	ii Oivi	460.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃, Rating of per diode	l ² t	219.5	A ² S	
Maximum Forward Voltage at 15.0A DC	V_{FM}	0.75	V	
Maximum Reverse Current TA = 25° C	IR	0.1	mA	
at Rated DC Blocking Voltage TA = 100 ℃	IK	20	mA	
Typical Junction Capacitance	CJ	300	pF	
Typical Thermal Resistance TO-220AB,TO-263	J	2.0	°	
TO-220F	R_{QJC}	4.0	°C/W	
Operating Junction Temperature Range	T_J	—55to+150	$^{\circ}$	
Storage Temperature Range	T _{STG}	—55to+150	$^{\circ}$	



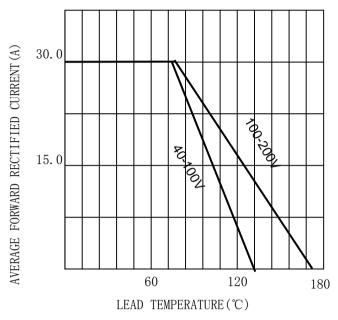


FIG. 2TYPICAL FORWARD CHARACTERISTICS

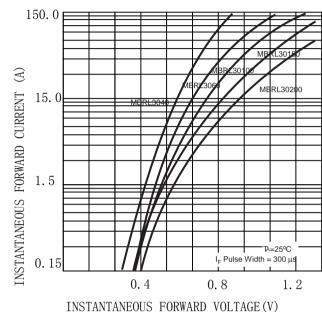


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

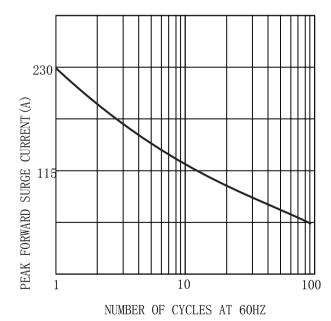
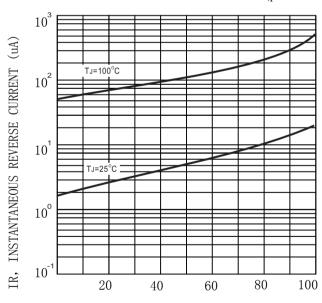


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

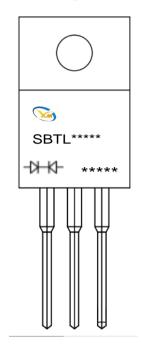


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION

TO-220AB/CT



-Ŋ--K)- = Polar line

🤝 = Logo

***** = Date Code Marking

SBTL***** = Marking Code



Package Outline Dimensions millimeters

TO-220AB/CT										
e d d d	DIM	INCHES		MM		NOTE				
		min	max	min	max	NOIE				
		A	_	0.41	_	10.30				
	В	0.33	0.34	8.30	8.70					
	С	0.18	0.19	4.50	4.90					
	D	0.57	0.60	14.60	15. 20					
	Е	0.53	0.56	13.50	14. 10					
	a	0.10	0.10	2.45	2.65					
	b		0.16		4. 10					
	С	0.03	0.04	0.72	0.92					
	d	0.01	0.02	0.30	0.50					
	е		0.15	_	3.80	Ø				
		f	0.05	0.06	1.20	1.40				

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